Access DB# _____

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: MARY HUDET Examiner #: 79808 Date: 3/7/03
Art Unit: 1654 Phone Number 30 5-5039 Serial Number: 09/719423
Mail Box and Bldg/Room Location: 11D13 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

_____

Earliest Priority Filing Date: 6-12-98

***For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.**

rT3 to (covalently) lys B29/Phe B1 INSULIN specifically,

& rT3 covalently bound insulin, &

Conjug. of rT3 & insulin

S2

Follow-up

****

STAFF USE ONLY

Searcher: Hanley
Searcher Phone #: _____
Searcher Location: _____
Date Searcher Picked Up: 3/7
Date Completed: 3/7
Searcher Prep & Review Time: _____
Clerical Prep Time: _____
Online Time: 32 min

Type of Search

NA Sequence (#) _____
AA Sequence (#) _____
Structure (#) _____
Bibliographic X
Litigation _____
Fulltext _____
Patent Family _____
Other _____

Vendors and cost where applicable

STN $243
Dialog _____
Questel/Orbit _____
Dr.Link _____
Lexis/Nexis _____
Sequence Systems _____
WWW/Internet _____
Other (specify) _____

PTO-1590 (8-01)

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     FILE 'REGISTRY' ENTERED AT 14:52:31 ON 07 MAR 2003
                E INSULIN/CN
                E INSULIN (HUMAN)/CN
L33           3 S E272,E32,E96
                SELECT RN L33 1-3
L34          31 S E282-284/CRN
L35        6509 S "INSULIN"
L36           0 S L35 AND RT3/NTE
L37           0 S L35 AND "RT3"
L38           0 S L35 AND NTE/FS
L39        4027 S L35 AND NTE/FA
L40           0 S L39 AND "RT3"
L41          18 S "RT3"
L42           1 S L41 AND C15 H12 I3 N O4/MF

     FILE 'CAPLUS' ENTERED AT 15:07:36 ON 07 MAR 2003
L43        1514 S L42
L44          82 S L43(L)(RRT OR RCT)/RL
L45           0 S L44 AND INSULIN
L46          35 S L43 AND INSULIN/IT
L47           2 S L46 AND CONJUG?
L48          60 S L43 AND INSULIN
L49           2 S L48 AND CONJUGAT?
L50           2 S L48 AND LINK?
L51           0 S L48 AND COVALENT?
L52           3 S L48 AND REACT?
L53          52 S INSULIN AND RT3
L54           1 S L53 AND CONJUGAT?
L55           7 S L53 AND (LINK? OR COVALENT? OR REACT?)
L56       16982 S ?TRIIODOTHYRONINE?
L57        1569 S L56 AND INSULIN
L58        1569 S L56 AND L57
L59          14 S L58 AND CONJUGAT?
L60           5 S L58 AND CONJUGAT?/IT
L61           1 S 1999:811275/AN
                SELECT RN L61 1

     FILE 'REGISTRY' ENTERED AT 15:19:14 ON 07 MAR 2003
L62           3 S E285-287

     FILE 'CAPLUS, MEDLINE, BIOSIS, EMBASE' ENTERED AT 15:24:46 ON 07 MAR 2003
L63           1 S 252878-62-9
L64        6064 S INSULIN AND (RT3 OR ?TRIIODOTHYRONIN? )
L65          39 S L64 AND CONJUGAT?

     FILE 'STNGUIDE' ENTERED AT 15:28:51 ON 07 MAR 2003

=> d cost
COST IN U.S. DOLLARS                    SINCE FILE      TOTAL
                                          ENTRY      SESSION
CONNECT CHARGES                            0.00        92.90
NETWORK CHARGES                            0.06         6.06
SEARCH CHARGES                             0.00        89.06
DISPLAY CHARGES                            0.00        55.36
                                        -------     -------
                                           0.06       243.38
CAPLUS FEE (5%)                            0.00         8.05
                                        -------     -------
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FULL ESTIMATED COST	0.06	251.43
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.85

IN FILE 'STNGUIDE' AT 15:29:41 ON 07 MAR 2003

=>

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PASSWORD:
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SESSION RESUMED IN FILE 'HCAPLUS' AT 14:49:22 ON 07 MAR 2003
FILE 'HCAPLUS' ENTERED AT 14:49:22 ON 07 MAR 2003
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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES:     6 MAR 2003  HIGHEST RN 497140-34-8
DICTIONARY FILE UPDATES:    6 MAR 2003  HIGHEST RN 497140-34-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e insulin/cn
E30             1      INSULFAB KP 121/CN
E31             1      INSULICOLIDE A/CN
E32             1 --> INSULIN/CN
E33             1      INSULIN (29-DE-LYSINE) (HUMAN B-CHAIN) FUSION PROTEIN WITH S
                       YNTHETIC TRIPEPTIDE FUSION PROTEIN WITH INSULIN (HUMAN A-CHA
                       IN)/CN
E34             1      INSULIN (A20A-GLYCINE,B30A-ARGININE,B30B-ARGININE) (HUMAN)/C
                       N
E35             1      INSULIN (A21-ALANINE) (HUMAN)/CN
E36             1      INSULIN (A21-ALANINE,B3-GLUTAMINE) (HUMAN)/CN
E37             1      INSULIN (A21-GLYCINE) (HUMAN)/CN
E38             1      INSULIN (A21-GLYCINE,B3-GLUTAMINE) (HUMAN)/CN
E39             1      INSULIN (A21-GLYCINE,B31-ARGININE,B32-ARGININE) (HUMAN)/CN
E40             1      INSULIN (AFRICAN LUNGFISH A-CHAIN)/CN
E41             1      INSULIN (AFRICAN LUNGFISH B-CHAIN)/CN

=> e
E42             1      INSULIN (ALLIGATOR MISSISSIPPIENSIS)/CN
E43             1      INSULIN (ALLIGATOR MISSISSIPPIENSIS-A REDUCED)/CN
E44             1      INSULIN (ALLIGATOR MISSISSIPPIENSIS-B REDUCED)/CN
E45             1      INSULIN (ALOPEX LAGOPUS)/CN
E46             1      INSULIN (AMIA CALVA)/CN
E47             1      INSULIN (AMIA CALVA-A REDUCED)/CN
E48             1      INSULIN (AMIA CALVA-B REDUCED)/CN
E49             1      INSULIN (AMPHIUMA TRIDACTYLUM A-CHAIN REDUCED)/CN
E50             1      INSULIN (AMPHIUMA TRIDACTYLUM B-CHAIN REDUCED)/CN
E51             1      INSULIN (AMPHIUMA TRIDACTYLUM-A REDUCED)/CN
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E52          1      INSULIN (AMPHIUMA TRIDACTYLUM-B REDUCED)/CN
E53          1      INSULIN (ANGUILLA JAPONICA)/CN

=> e
E54          1      INSULIN (ANGUILLA JAPONICA-A REDUCED)/CN
E55          1      INSULIN (ANGUILLA JAPONICA-B REDUCED)/CN
E56          1      INSULIN (ANGUILLA ROSTRATA)/CN
E57          1      INSULIN (AOTUS TRIVIRGATUS)/CN
E58          1      INSULIN (AOTUS TRIVIRGATUS-A REDUCED)/CN
E59          1      INSULIN (AOTUS TRIVIRGATUS-B REDUCED)/CN
E60          1      INSULIN (APLYSIA CALIFORNICA-A REDUCED)/CN
E61          1      INSULIN (APLYSIA CALIFORNICA-B REDUCED)/CN
E62          1      INSULIN (B1-ASPARTIC ACID,B13-GLUTAMIC ACID) (HUMAN)/CN
E63          1      INSULIN (B1-ASPARTIC ACID,B13-GLUTAMINE) (HUMAN)/CN
E64          1      INSULIN (B10-GLUTAMIC ACID)(HUMAN) FUSION PROTEIN WITH INSUL
                    IN-LIKE GROWTH FACTOR I (HUMAN C-DOMAIN)/CN
E65          1      INSULIN (B28-ALANINE) (HUMAN)/CN

=> e
E66          1      INSULIN (B28-ALANINE,B29-PROLINE) (HUMAN)/CN
E67          1      INSULIN (B28-ASPARTIC ACID) (HUMAN)/CN
E68          1      INSULIN (B28-ASPARTIC ACID,B29-PROLINE) (HUMAN)/CN
E69          1      INSULIN (B28-LEUCINE) (HUMAN)/CN
E70          1      INSULIN (B28-LEUCINE,B29-PROLINE) (HUMAN)/CN
E71          1      INSULIN (B28-LYSINE) (HUMAN)/CN
E72          1      INSULIN (B28-LYSINE,B29-PROLINE) (HUMAN)/CN
E73          1      INSULIN (B28-VALINE) (HUMAN)/CN
E74          1      INSULIN (B28-VALINE,B29-PROLINE) (HUMAN)/CN
E75          1      INSULIN (B3-GLUTAMINE) (HUMAN)/CN
E76          1      INSULIN (B30-GLUTAMINE) (HUMAN)/CN
E77          1      INSULIN (B31-ARGININE,B32-ARGININE) (HUMAN)/CN

=> e
E78          1      INSULIN (B32A-ARGININE) (SYNTHETIC HUMAN CLONE PINT302)/CN
E79          1      INSULIN (B34A-ARGININE) (SYNTHETIC HUMAN CLONE PINT316)/CN
E80          1      INSULIN (BEEF)/CN
E81          1      INSULIN (BISON BONASUS)/CN
E82          1      INSULIN (BOVINE)/CN
E83          1      INSULIN (BUFO MARINUS-A REDUCED)/CN
E84          1      INSULIN (BUFO MARINUS-B REDUCED)/CN
E85          1      INSULIN (CAENORHABDITIS ELEGANS ISOFORM 1)/CN
E86          1      INSULIN (CAENORHABDITIS ELEGANS ISOFORM 2)/CN
E87          1      INSULIN (CALLORHYNCHUS CALLORHYNCHUS)/CN
E88          1      INSULIN (CANIS FAMILIARIS)/CN
E89          1      INSULIN (CANIS FAMILIARIS-A REDUCED)/CN

=> e
E90          1      INSULIN (CANIS FAMILIARIS-B REDUCED)/CN
E91          1      INSULIN (CANIS FAMILIARIS-B REDUCED), BIMOL. CYCLIC (7.FWDAR
                    W.19'),(19.FWDARW.7')-BIS(DISULFIDE)/CN
E92          1      INSULIN (CASIRAGUA)/CN
E93          1      INSULIN (CASIRAGUA-A REDUCED)/CN
E94          1      INSULIN (CASIRAGUA-B REDUCED)/CN
E95          1      INSULIN (CATTLE CLONE INS10 B CHAIN) FUSION PROTEIN WITH PEP
                    TIDE (SYNTHETIC CLONE INS10) FUSION PROTEIN WITH INSULIN (CA
                    TTLE CLONE INS10 A CHAIN)/CN
E96          1      INSULIN (CATTLE)/CN
E97          1      INSULIN (CATTLE), (SECO-8B/9B)- (CATTLE)/CN
E98          1      INSULIN (CATTLE), 10A-L-ISOLEUCINE-16B-L-GLUTAMINE-17B-L-PHE
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NYLALANINE-30B-L-THREONINE-/CN
E99 1 INSULIN (CATTLE), 10A-L-ISOLEUCINE-30B-L-THREONINE-/CN
E100 1 INSULIN (CATTLE), 10B-L-ASPARTIC ACID-16B-L-PHENYLALANINE-26B-L-PHENYLALANINE-/CN
E101 1 INSULIN (CATTLE), 10B-L-ASPARTIC ACID-30B-L-THREONINE-/CN

=> e
E102 1 INSULIN (CATTLE), 11B-L-VALINE-12B-L-LEUCINE-/CN
E103 1 INSULIN (CATTLE), 12B-(2-METHYLALANINE)-/CN
E104 1 INSULIN (CATTLE), 12B-D-ALANINE-/CN
E105 1 INSULIN (CATTLE), 12B-L-ISOLEUCINE-30B-L-THREONINE-/CN
E106 1 INSULIN (CATTLE), 12B-L-PHENYLALANINE-/CN
E107 1 INSULIN (CATTLE), 14-(O-(1-METHYLPYRIDINIUM-2-YL)-L-TYROSINE)-, INNER SALT/CN
E108 1 INSULIN (CATTLE), 14A,16B,19A,26B-TETRAKIS(HYDROGEN SULFATE)/CN
E109 1 INSULIN (CATTLE), 14A-(3-(IODO-123I)-L-TYROSINE)-/CN
E110 1 INSULIN (CATTLE), 14A-(3-(IODO-125I)-L-TYROSINE)-/CN
E111 1 INSULIN (CATTLE), 14A-(3-(IODO-125I)-L-TYROSINE)-29B-(N6-(4-AZIDOBENZOYL)-L-LYSINE)-/CN
E112 1 INSULIN (CATTLE), 14A-(3-IODO-L-TYROSINE)-/CN
E113 1 INSULIN (CATTLE), 14A-(3-NITRO-L-TYROSINE)-16B-(3-NITRO-L-TYROSINE)-19A-(3-NITRO-L-TYROSINE)-26B-(3-NITRO-L-TYROSINE)-/CN

=> e
E114 1 INSULIN (CATTLE), 14A-(O-(1-METHYLPYRIDINIUM-2-YL)-L-TYROSINE)-/CN
E115 1 INSULIN (CATTLE), 14A-(O-(2-NITRO-4-(TRIMETHYLAMMONIO)PHENYL)-L-TYROSINE)-/CN
E116 1 INSULIN (CATTLE), 14A-(O-(2-NITRO-4-(TRIMETHYLAMMONIO)PHENYL)-L-TYROSINE)-, IODIDE/CN
E117 1 INSULIN (CATTLE), 15A-L-ASPARAGINE-17A-L-PROLINE-21A-L-ALANINE-/CN
E118 1 INSULIN (CATTLE), 15B-L-ALANINE-16B-L-ALANINE-/CN
E119 1 INSULIN (CATTLE), 16B-(O-(1-METHYLPYRIDINIUM-2-YL)-L-TYROSINE)-, INNER SALT/CN
E120 1 INSULIN (CATTLE), 16B-L-ALANINE-/CN
E121 1 INSULIN (CATTLE), 16B-L-PHENYLALANINE-/CN
E122 1 INSULIN (CATTLE), 16B-L-PHENYLALANINE-26B-L-PHENYLALANINE-/CN
E123 1 INSULIN (CATTLE), 16B-L-TRYPTOPHAN-30B-L-THREONINE-/CN
E124 1 INSULIN (CATTLE), 19A-(O-(1-METHYLPYRIDINIUM-2-YL)-L-TYROSINE)-, INNER SALT/CN
E125 1 INSULIN (CATTLE), 1A-(N-((1,1-DIMETHYLETHOXY)CARBONYL)-D-ALANINE)-1B-(N-((1,1-DIMETHYLETHOXY)CARBONYL)-D-ALANINE)-/CN

=> e
E126 1 INSULIN (CATTLE), 1A-(N-((1,1-DIMETHYLETHOXY)CARBONYL)-L-TRYPTOPHAN)-/CN
E127 1 INSULIN (CATTLE), 1A-(N-((1,1-DIMETHYLETHOXY)CARBONYL)-L-VALINE)-/CN
E128 1 INSULIN (CATTLE), 1A-(N-(2,7-DIAMINO-7-CARBOXY-1-OXOHEPTYL)-D-ALANINE)-1B-D-ALANINE-, CYCLIC (1A.FWDARW.29B)-PEPTIDE/CN
E129 1 INSULIN (CATTLE), 1A-(N4-((4-AZIDOPHENYL)ACETYL)-D-2,4-DIAMINOBUTANOIC ACID)-/CN
E130 1 INSULIN (CATTLE), 1A-.BETA.-ALANINE-/CN
E131 1 INSULIN (CATTLE), 1A-D-ALANINE-1B-D-ALANINE-/CN
E132 1 INSULIN (CATTLE), 1A-D-ALANINE-26B-DE-L-TYROSINE-27B-DE-L-TH

REONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/C
N

E133 1 INSULIN (CATTLE), 1A-D-ALANINE-9A-GLYCINE-/CN
E134 1 INSULIN (CATTLE), 1A-D-GLUTAMIC ACID-/CN
E135 1 INSULIN (CATTLE), 1A-D-LEUCINE-/CN
E136 1 INSULIN (CATTLE), 1A-D-LYSINE-/CN
E137 1 INSULIN (CATTLE), 1A-D-PHENYLALANINE-/CN

=> e
E138 1 INSULIN (CATTLE), 1A-D-PROLINE-/CN
E139 1 INSULIN (CATTLE), 1A-D-SERINE-/CN
E140 1 INSULIN (CATTLE), 1A-D-TRYPTOPHAN-/CN
E141 1 INSULIN (CATTLE), 1A-DEGLYCINE-/CN
E142 1 INSULIN (CATTLE), 1A-DEGLYCINE-1B-DE-L-PHENYLALANINE-/CN
E143 1 INSULIN (CATTLE), 1A-DEGLYCINE-1B-DE-L-PHENYLALANINE-29B-(N6
-((PHENYLAMINO)THIOXOMETHYL)-L-LYSINE)-/CN
E144 1 INSULIN (CATTLE), 1A-DEGLYCINE-1B-DE-L-PHENYLALANINE-2A-(N-(
(1,3-DIHYDRO-1,3-DIOXO-2H-ISOINDOL-2-YL)ACETYL)-L-ISOLEUCINE
)-2B-(N-(2-(1,3-DIHYDRO-1,3-DIOXO-2H-ISOINDOL-2-YL)-1-OXO-3-
PHENYLPROPYL)-L-VALI/CN
E145 1 INSULIN (CATTLE), 1A-DEGLYCINE-1B-DE-L-PHENYLALANINE-2A-DE-L
-ISOLEUCINE-2B-DE-L-VALINE-/CN
E146 1 INSULIN (CATTLE), 1A-DEGLYCINE-26B-DE-L-TYROSINE-27B-DE-L-TH
REONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/C
N
E147 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-(N-((1,1-DIMETHYLETHOXY)AC
ETYL)-L-ISOLEUCINE)-/CN
E148 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-(N-((2,5-DIHYDRO-3-METHYL-
2,5-DIOXO-1H-PYRROL-1-YL)ACETYL)-L-ISOLEUCINE)-/CN
E149 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-(N-((PHENYLAMINO)THIOXOMET
HYL)-L-ISOLEUCINE)-/CN

=> e
E150 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-(N-((TRIMETHYLAMMONIO)ACET
YL)-L-ISOLEUCINE)-/CN
E151 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-(N-(1-OXOPROPYL)-L-ISOLEUC
INE)-/CN
E152 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-(N-(4-AMINO-1-OXOBUTYL)-L-
ISOLEUCINE)-/CN
E153 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-(N-(6-AMINO-1-OXOHEXYL)-L-
ISOLEUCINE)-/CN
E154 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-(N-(HYDROXYACETYL)-L-ISOLE
UCINE)-/CN
E155 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-(N-ACETYL-L-ISOLEUCINE)-/C
N
E156 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-(N-ACETYL-L-ISOLEUCINE)-9A
-GLYCINE-/CN
E157 1 INSULIN (CATTLE), 1A-DEGLYCINE-2A-DE-L-ISOLEUCINE-3A-DE-L-VA
LINE-4A-DE-L-GLUTAMIC ACID-9A-GLYCINE-/CN
E158 1 INSULIN (CATTLE), 1A-DEGLYCINE-9A-GLYCINE-/CN
E159 1 INSULIN (CATTLE), 1A-L-ALANINE-26B-DE-L-TYROSINE-27B-DE-L-TH
REONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/C
N
E160 1 INSULIN (CATTLE), 1A-L-ALANINE-9A-GLYCINE-/CN
E161 1 INSULIN (CATTLE), 1A-L-GLUTAMIC ACID-/CN

=> e
E162 1 INSULIN (CATTLE), 1A-L-LEUCINE-/CN
E163 1 INSULIN (CATTLE), 1A-L-LYSINE-/CN

E164 1 INSULIN (CATTLE), 1A-L-PROLINE-/CN
E165 1 INSULIN (CATTLE), 1A-L-TRYPTOPHAN-/CN
E166 1 INSULIN (CATTLE), 1A-L-VALINE-/CN
E167 1 INSULIN (CATTLE), 1B-(4-AZIDO-L-PHENYLALANINE)-/CN
E168 1 INSULIN (CATTLE), 1B-(4-IODO-L-PHENYLALANINE)-/CN
E169 1 INSULIN (CATTLE), 1B-(L-PHENYL-T5-ALANINE)-/CN
E170 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-/CN
E171 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN
E172 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-(N-((4-AZIDO-2-NITROPHENYL)ACETYL)-L-VALINE)-/CN
E173 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-(N-(1-OXO-3-PHENYLPROPYL)-L-VALINE)-/CN

=> e
E174 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-(N-(2-(2,5-DIOXO-1-PYRROLIDINYL)-1-OXO-3-PHENYLPROPYL)-L-VALINE)-29B-(6-(2,5-DIOXO-1-PYRROLIDINYL)-L-NORLEUCINE)-, (S)-/CN
E175 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-(N-(3-(4-HYDROXY-3,5-DIIODOPHENYL)-1-OXOPROPYL)-L-VALINE)-/CN
E176 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-(N-(3-(4-HYDROXY-3-(IODO-125I)PHENYL)-1-OXOPROPYL)-L-VALINE)-/CN
E177 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-(N-(3-(4-HYDROXY-3-IODOPHENYL)-1-OXOPROPYL)-L-VALINE)-/CN
E178 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-/CN
E179 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN
E180 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-DE-L-ASPARAGINE-/CN
E181 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-DE-L-ASPARAGINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN
E182 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-DE-L-ASPARAGINE-4B-(5-OXO-L-PROLINE)-/CN
E183 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-DE-L-ASPARAGINE-4B-DE-L-GLUTAMINE-/CN
E184 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-DE-L-ASPARAGINE-4B-DE-L-GLUTAMINE-5B-DE-L-HISTIDINE-/CN
E185 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-DE-L-ASPARAGINE-4B-DE-L-GLUTAMINE-5B-DE-L-HISTIDINE-6B-DE-L-LEUCINE-/CN

=> e
E186 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-DE-L-ASPARAGINE-4B-L-ALANINE-/CN
E187 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-DE-L-ASPARAGINE-4B-L-ALANINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-/CN
E188 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-DE-L-ASPARAGINE-4B-L-ALANINE-6B-L-VALINE-9B-L-ALANINE-10B-L-ALANINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-/CN
E189 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-DE-L-ASPARAGINE-4B-L-ALANINE-9B-L-ALANINE-10B-L-ALANINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-/CN
E190 1 INSULIN (CATTLE), 1B-DE-L-PHENYLALANINE-2B-DE-L-VALINE-3B-L-ASPARAGINE-4B-DE-L-GLUTAMINE-5B-DE-L-HISTIDINE-/CN

E191 1 INSULIN (CATTLE), 1B-L-ALANINE-2B-L-ALANINE-8A-L-HISTIDINE-9A-L-ASPARAGINE-10A-L-THREONINE-21A-DE-L-ASPARAGINE-27B-L-SERINE-30B-DE-L-ALANINE-/CN

E192 1 INSULIN (CATTLE), 1B-L-TRYPTOPHAN-/CN

E193 1 INSULIN (CATTLE), 21A-DE-L-ASPARAGINE-30B-DE-L-ALANINE-/CN

E194 1 INSULIN (CATTLE), 21A-L-ASPARTIC ACID-/CN

E195 1 INSULIN (CATTLE), 21A-L-ASPARTIC ACID-27B-L-GLUTAMIC ACID-30B-L-THREONINE-/CN

E196 1 INSULIN (CATTLE), 21B-(2-METHYLALANINE)-/CN

E197 1 INSULIN (CATTLE), 21B-D-GLUTAMIC ACID-/CN

=> e

E198 1 INSULIN (CATTLE), 21B-L-PROLINE-30B-L-THREONINE-/CN

E199 1 INSULIN (CATTLE), 22B-(2-METHYLALANINE)-/CN

E200 1 INSULIN (CATTLE), 22B-(N5-(3A,4,5,6,7,7A-HEXAHYDRO-3A,7A-DIHYDROXY-1H-BENZIMIDAZOL-2-YL)-L-ORNITHINE)-/CN

E201 1 INSULIN (CATTLE), 22B-(N5-(3A,4,5,6,7,7A-HEXAHYDRO-3A,7A-DIHYDROXY-1H-BENZIMIDAZOL-2-YL)-L-ORNITHINE)-, ZINC SALT/CN

E202 1 INSULIN (CATTLE), 22B-(N5-(3A,4,5,6,7,7A-HEXAHYDRO-3A,7A-DIHYDROXY-1H-BENZIMIDAZOL-2-YL)-L-ORNITHINE)-30B-DE-L-ALANINE-/CN

E203 1 INSULIN (CATTLE), 22B-(N5-(3A,4,5,6,7,7A-HEXAHYDRO-3A,7A-DIHYDROXY-1H-BENZIMIDAZOL-2-YL)-L-ORNITHINE)-30B-L-THREONINE-, 30B-(1,1-DIMETHYLETHYL) ESTER/CN

E204 1 INSULIN (CATTLE), 22B-(N5-(AMINOCARBONYL)-L-ORNITHINE)-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E205 1 INSULIN (CATTLE), 22B-DE-L-ARGININE-23B-DEGLYCINE-24B-DE-L-PHENYLALANINE-25B-DE-L-PHENYLALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E206 1 INSULIN (CATTLE), 22B-DE-L-ARGININE-23B-DEGLYCINE-24B-DE-L-PHENYLALANINE-25B-DE-L-PHENYLALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-, 4A,13B,17A,21A,/CN

E207 1 INSULIN (CATTLE), 22B-GLYCINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E208 1 INSULIN (CATTLE), 22B-L-ALANINE-24B-DE-L-PHENYLALANINE-25B-DE-L-PHENYLALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E209 1 INSULIN (CATTLE), 22B-L-ALANINE-25B-DE-L-PHENYLALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

=> e

E210 1 INSULIN (CATTLE), 22B-L-ALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E211 1 INSULIN (CATTLE), 22B-L-ALANINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-/CN

E212 1 INSULIN (CATTLE), 22B-L-ALANINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E213 1 INSULIN (CATTLE), 22B-L-LYSINE-24B-DE-L-PHENYLALANINE-25B-DE-L-PHENYLALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E214 1 INSULIN (CATTLE), 22B-L-LYSINE-25B-DE-L-PHENYLALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E215 1 INSULIN (CATTLE), 22B-L-LYSINE-26B-DE-L-TYROSINE-27B-DE-L-TH

REONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/C
N

E216 1 INSULIN (CATTLE), 22B-L-LYSINE-27B-DE-L-THREONINE-28B-DE-L-P
ROLINE-29B-DE-L-LYSINE-/CN

E217 1 INSULIN (CATTLE), 22B-L-LYSINE-27B-DE-L-THREONINE-28B-DE-L-P
ROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E218 1 INSULIN (CATTLE), 22B-L-ORNITHINE-26B-DE-L-TYROSINE-27B-DE-L
-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE
-/CN

E219 1 INSULIN (CATTLE), 23B-D-ALANINE-24B-D-PHENYLALANINE-27B-DE-L
-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE
-/CN

E220 1 INSULIN (CATTLE), 23B-D-ALANINE-25B-DE-L-PHENYLALANINE-26B-D
E-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LY
SINE-30B-DE-L-ALANINE-/CN

E221 1 INSULIN (CATTLE), 23B-D-ALANINE-25B-DE-L-PHENYLALANINE-26B-D
E-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LY
SINE-30B-DE-L-ALANINE-, 24B-METHYL ESTER/CN

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E222 1 INSULIN (CATTLE), 23B-D-ALANINE-27B-DE-L-THREONINE-28B-DE-L-
PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E223 1 INSULIN (CATTLE), 23B-DEGLYCINE-24B-DE-L-PHENYLALANINE-25B-D
E-L-PHENYLALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-D
E-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E224 1 INSULIN (CATTLE), 23B-DEGLYCINE-24B-DE-L-PHENYLALANINE-25B-D
E-L-PHENYLALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-D
E-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-, 21B-METHYL ES
TER/CN

E225 1 INSULIN (CATTLE), 23B-L-ALANINE-24B-D-PHENYLALANINE-27B-DE-L
-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE
-/CN

E226 1 INSULIN (CATTLE), 23B-L-ALANINE-27B-DE-L-THREONINE-28B-DE-L-
PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E227 1 INSULIN (CATTLE), 24B-DE-L-PHENYLALANINE-25B-DE-L-PHENYLALAN
INE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29
B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E228 1 INSULIN (CATTLE), 24B-L-ALANINE-30B-L-THREONINE-/CN

E229 1 INSULIN (CATTLE), 25B-DE-L-PHENYLALANINE-26B-DE-L-TYROSINE-2
7B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-
ALANINE-/CN

E230 1 INSULIN (CATTLE), 25B-L-ALANINE-30B-L-THREONINE-/CN

E231 1 INSULIN (CATTLE), 25B-L-TYROSINE-/CN

E232 1 INSULIN (CATTLE), 26B-(3-(IODO-125I)-L-TYROSINE)-29B-(N6-(4-
AZIDOBENZOYL)-L-LYSINE)-/CN

E233 1 INSULIN (CATTLE), 26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-D
E-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

=> e

E234 1 INSULIN (CATTLE), 26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-D
E-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-, 25B-METHYL ES
TER/CN

E235 1 INSULIN (CATTLE), 26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-D
E-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-, 4A,13B,17A,21
A,21B-PENTAMETHYL ESTER/CN

E236 1 INSULIN (CATTLE), 26B-L-.ALPHA.-GLUTAMINE-27B-DE-L-THREONINE
-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN

E237 1 INSULIN (CATTLE), 26B-L-ALANINE-30B-L-THREONINE-/CN

E238 1 INSULIN (CATTLE), 26B-L-PHENYLALANINE-/CN

E239 1 INSULIN (CATTLE), 26B-L-THREONINAMIDE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN
E240 1 INSULIN (CATTLE), 26B-L-TYROSINAMIDE-27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN
E241 1 INSULIN (CATTLE), 27B-DE-L-THREONINE-28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN
E242 1 INSULIN (CATTLE), 27B-L-GLUTAMIC ACID-/CN
E243 1 INSULIN (CATTLE), 28B-DE-L-PROLINE-29B-DE-L-LYSINE-30B-DE-L-ALANINE-/CN
E244 1 INSULIN (CATTLE), 28B-L-ASPARTIC ACID-30B-L-THREONINE-/CN
E245 1 INSULIN (CATTLE), 28B-L-ASPARTIC ACID-30B-L-THREONINE-, 30B-METHYL ESTER/CN

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E246 1 INSULIN (CATTLE), 29B,29B'-(1,12-DIOXO-1,12-DODECANEDIYL)BIS-/CN
E247 1 INSULIN (CATTLE), 29B,29B'-(1,2-DIOXO-1,2-ETHANEDIYL)BIS-/CN
E248 1 INSULIN (CATTLE), 29B,29B'-(1,6-DIOXO-1,6-HEXANEDIYL)BIS(1A-D-ALANINE-1B-D-ALANINE-/CN
E249 1 INSULIN (CATTLE), 29B,29B'-(1,6-DIOXO-1,6-HEXANEDIYL)BIS(1B-DE-L-PHENYLALANINE-2B-(N-((4-AZIDOPHENYL)ACETYL)-L-VALINE)-/CN
E250 1 INSULIN (CATTLE), 29B,29B'-(1,8-DIOXO-1,8-OCTANEDIYL)BIS-/CN
E251 1 INSULIN (CATTLE), 29B-(N6-(((2-SULFO-9H-FLUOREN-9-YL)METHOXY)CARBONYL)-L-LYSINE)-/CN
E252 1 INSULIN (CATTLE), 29B-(N6-((1,1-DIMETHYLETHOXY)CARBONYL)-L-LYSINE)-/CN
E253 1 INSULIN (CATTLE), 29B-(N6-((3-FORMYL-2,2-DIMETHYL-4-THIAZOLIDINYL)CARBONYL)-L-LYSINE)-, (R)-/CN
E254 1 INSULIN (CATTLE), 29B-(N6-((4-AZIDO-2-NITROPHENYL)ACETYL)-L-LYSINE)-/CN
E255 1 INSULIN (CATTLE), 29B-(N6-((4-AZIDOPHENYL)ACETYL)-L-LYSINE)-/CN
E256 1 INSULIN (CATTLE), 29B-(N6-((9H-FLUOREN-9-YLMETHOXY)CARBONYL)-L-LYSINE)-/CN
E257 1 INSULIN (CATTLE), 29B-(N6-(1-OXOHEXADECYL)-L-LYSINE)-/CN

=> e
E258 1 INSULIN (CATTLE), 29B-(N6-(1-OXOHEXYL)-L-LYSINE)-/CN
E259 1 INSULIN (CATTLE), 29B-(N6-(3-CARBOXY-1-OXOPROPYL)-L-LYSINE)-/CN
E260 1 INSULIN (CATTLE), 29B-(N6-(4-AZIDO-2-NITROPHENYL)-L-LYSINE)-/CN
E261 1 INSULIN (CATTLE), 29B-(N6-(4-AZIDOBENZOYL)-L-LYSINE)-/CN
E262 1 INSULIN (CATTLE), 29B-(N6-(5-(HEXAHYDRO-2-OXO-1H-THIENO(3,4-D)IMIDAZOL-4-YL)-1-OXOPENTYL)-L-LYSINE)-, (3AS-(3A.ALPHA.,4.BETA.,6A.ALPHA.))-/CN
E263 1 INSULIN (CATTLE), 29B-(N6-(7-CARBOXY-1-OXOHEPTYL)-L-LYSINE)-, (29B.FWDARW.1B')-AMIDE WITH 23B-DEGLYCINE-24B-DE-L-PHENYLALANINE-25B-DE-L-PHENYLALANINE-26B-DE-L-TYROSINE-27B-DE-L-THREONINE-28B-DE-L-PROL/CN
E264 1 INSULIN (CATTLE), 29B-(N6-(N-((PHENYLMETHOXY)CARBONYL)-L-.GAMMA.-GLUTAMYL)-L-LYSINE)-, (29B.FWDARW.1A)-LACTAM/CN
E265 1 INSULIN (CATTLE), 29B-(N6-(N-(4-AZIDO-2-NITROPHENYL)GLYCYL)-L-LYSINE)-/CN
E266 1 INSULIN (CATTLE), 29B-(N6-(N-(BROMOACETYL)-.BETA.-ALANYL)-L-LYSINE)-/CN
E267 1 INSULIN (CATTLE), 29B-(N6-(TRIFLUOROACETYL)-L-LYSINE)-/CN
E268 1 INSULIN (CATTLE), 29B-(N6-ACETYL-L-LYSINE)-/CN

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E269          1     INSULIN (CATTLE), 29B-(N6-L-ALANYL-L-LYSINE)-/CN

=> e insulin (human)/cn
E270          1     INSULIN (HUMAN PSYA/BA-CHAIN REDUCED)/CN
E271          1     INSULIN (HUMAN SYNTHETIC CLONE PPGK/PSCI 57-AMINO-ACID FRAGM
                    ENT)/CN
E272          1 --> INSULIN (HUMAN)/CN
E273          1     INSULIN (HUMAN), 10A-L-VALINE-/CN
E274          1     INSULIN (HUMAN), 10B-L-ALANINE-/CN
E275          1     INSULIN (HUMAN), 10B-L-ARGININE-/CN
E276          1     INSULIN (HUMAN), 10B-L-ASPARAGINE-/CN
E277          1     INSULIN (HUMAN), 10B-L-ASPARTIC ACID-/CN
E278          1     INSULIN (HUMAN), 10B-L-ASPARTIC ACID-21A-GLYCINE-28B-L-LYSIN
                    E-29B-L-PROLINE-/CN
E279          1     INSULIN (HUMAN), 10B-L-ASPARTIC ACID-21A-L-ALANINE-28B-L-LYS
                    INE-29B-L-PROLINE-/CN
E280          1     INSULIN (HUMAN), 10B-L-ASPARTIC ACID-24B-D-PHENYLALANINE-28B
                    -L-LYSINE-29B-L-PROLINE-/CN
E281          1     INSULIN (HUMAN), 10B-L-ASPARTIC ACID-24B-GLYCINE-28B-L-LYSIN
                    E-29B-L-PROLINE-/CN

=> s e272,e32,e96
              1 "INSULIN (HUMAN)"/CN
              1 INSULIN/CN
              1 "INSULIN (CATTLE)"/CN
L33           3 ("INSULIN (HUMAN)"/CN OR INSULIN/CN OR "INSULIN (CATTLE)"/CN)

=> d scan

L33  3 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   Insulin (human) (9CI)
SQL  51,30,21
MF   C257 H383 N65 O77 S6
CI   COM, MAN

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L33  3 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   Insulin (cattle) (9CI)
SQL  51,30,21
MF   C254 H377 N65 O75 S6
CI   MAN

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L33  3 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   Insulin (9CI)
MF   Unspecified
CI   PMS, COM, MAN
```

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*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

ALL ANSWERS HAVE BEEN SCANNED

=> d rn 1-3

L33  ANSWER 1 OF 3  REGISTRY  COPYRIGHT 2003 ACS
RN   11070-73-8  REGISTRY

L33  ANSWER 2 OF 3  REGISTRY  COPYRIGHT 2003 ACS
RN   11061-68-0  REGISTRY

L33  ANSWER 3 OF 3  REGISTRY  COPYRIGHT 2003 ACS
RN   9004-10-8  REGISTRY


=> select rn l33 1-3
E282 THROUGH E284 ASSIGNED

=> s e282-284/crn
             5 11061-68-0/CRN
             0 11070-73-8/CRN
            26 9004-10-8/CRN
L34         31 (11061-68-0/CRN OR 11070-73-8/CRN OR 9004-10-8/CRN)

=> d scan

L34  31 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   Glucagon, mixt. with epidermal growth factor and insulin (9CI)
MF   Unspecified . Unspecified . Unspecified
CI   MXS

     CM   1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

     CM   2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

     CM   3

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L34  31 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   Insulin (human), polymer with 4-(4-imino-2,5-cyclohexadien-1-ylidene)-2,5-
     cyclohexadien-1-imine (9CI)
MF   (C257 H383 N65 O77 S6 . C12 H10 N2)x
CI   PMS

     CM   1

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
```
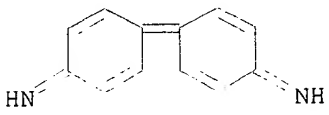

CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

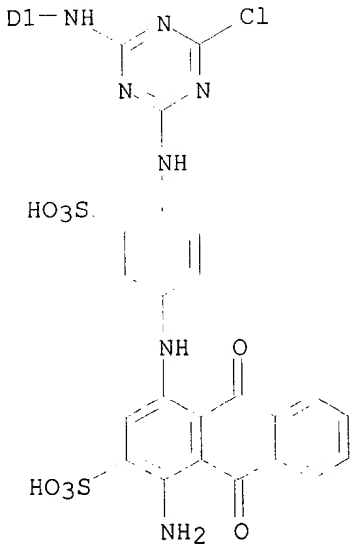
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, compd. with 1-amino-4-[[4-[[4-chloro-6-[[3(or 4)-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-2-anthracenesulfonic acid (9CI)
MF C29 H20 Cl N7 O11 S3 . x Unspecified

CM 1

PAGE 1-A

D1 SO_3H

PAGE 2-A



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     CM   2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> d his

     (FILE 'HOME' ENTERED AT 13:09:05 ON 07 MAR 2003)

     FILE 'HCAPLUS' ENTERED AT 13:09:24 ON 07 MAR 2003
L1            71 S WAGENBLAST G?/AU
L2            41 S SUTORIS H?/AU
L3            36 S SCHLIEPHAKE V?/AU
L4          1485 S SCHROEDER J?/AU
L5          1738 S KELLER H?/AU
L6            30 S JAWOREK T?/AU
L7          3348 S L1-6
L8            16 S L7 AND FREE RADICAL
L9         42391 S N-OXYL? OR N-OXIDE OR 1-OXIDE
L10       376085 S PHENOL? OR CRESOL?
L11            0 S BIRTHER
L12            6 S L8 AND L9-11
L13            4 S L12 AND POLYMERI?
                 SELECT RN L13 1-4

     FILE 'REGISTRY' ENTERED AT 13:14:11 ON 07 MAR 2003
L14           25 S E1-25

     FILE 'HCAPLUS' ENTERED AT 13:14:17 ON 07 MAR 2003
L15            4 S L13 AND L14

     FILE 'STNGUIDE' ENTERED AT 13:15:27 ON 07 MAR 2003

     FILE 'HCAPLUS' ENTERED AT 13:17:02 ON 07 MAR 2003
L16        16833 S ?ORTHOPHOSPH?
L17           12 S L16 AND L7
L18            0 S L17 AND L10
L19            0 S L17 AND POLYMER?
L20            1 S L17 AND PURIFICATION/TI
L21            0 S L17 AND ALUMINUM/TI
L22            0 S L17 AND ALUMIN/TI
L23            4 S L17 AND ALUMIUM
L24           12 S L17 AND ?PHOSPH?
L25        40045 S BIRT?
L26            0 S L25 AND L17
L27         1070 S L25 AND COMPOUND
L28           49 S L25(5A)COMPOUND
L29            6 S L28 NOT BIRTH
L30            1 S US6458956/PN
                 SELECT RN L30 1

     FILE 'REGISTRY' ENTERED AT 13:40:58 ON 07 MAR 2003
L31            4 S E26-29

     FILE 'HCAPLUS' ENTERED AT 13:41:16 ON 07 MAR 2003
L32            1 S L30 AND L31
```

```
     FILE 'REGISTRY' ENTERED AT 14:52:31 ON 07 MAR 2003
                 E INSULIN/CN
                 E INSULIN (HUMAN)/CN
L33            3 S E272,E32,E96
                 SELECT RN L33 1-3
L34           31 S E282-284/CRN

=> d scan

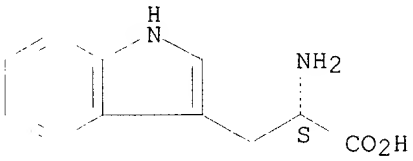
L34  31 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   Insulin, mixt. with L-tryptophan (9CI)
MF   C11 H12 N2 O2 . Unspecified
CI   MXS

     CM   1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

     CM   2

Absolute stereochemistry.
```



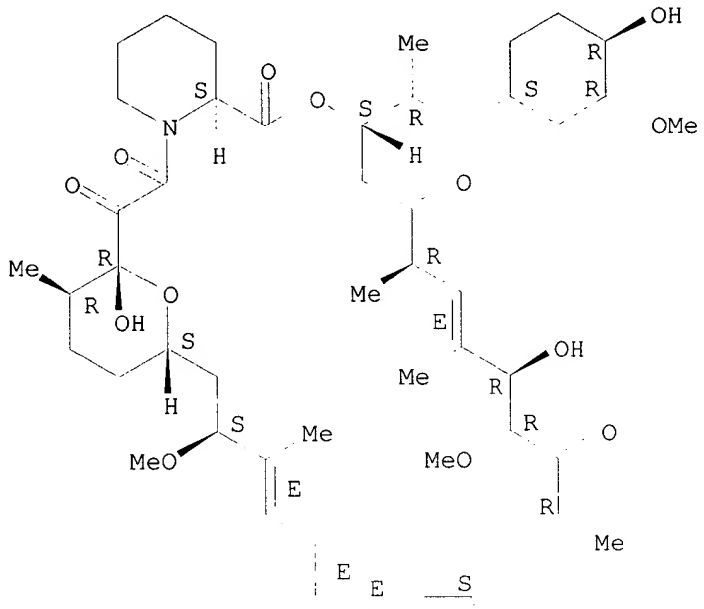

```
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L34  31 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   Insulin, mixt. with rapamycin (9CI)
MF   C51 H79 N O13 . Unspecified
CI   MXS

     CM   1

Absolute stereochemistry.
Double bond geometry as shown.
```

PAGE 1-A



PAGE 2-A

Me

CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

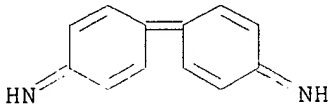
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin (human), polymer with 4-(4-imino-2,5-cyclohexadien-1-ylidene)-2,5-cyclohexadien-1-imine (9CI)
MF (C257 H383 N65 O77 S6 . C12 H10 N2)x
CI PMS

CM 1

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, mixt. with insulin protamine zinc (9CI)
MF Unspecified . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

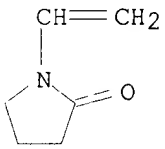
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, mixt. with 1-ethenyl-2-pyrrolidinone homopolymer (9CI)
MF (C6 H9 N O)x . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CM 3



L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN D-Glucose, mixt. with insulin and potassium chloride (KCl) (9CI)
MF C6 H12 O6 . Cl K . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

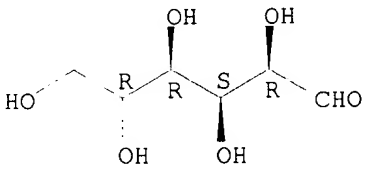
CM 2

Cl— K

Cl-K

CM 3

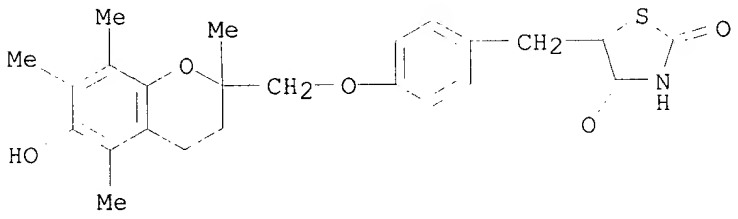
Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, mixt. with 5-[[4-[(3,4-dihydro-6-hydroxy-2,5,7,8-tetramethyl-2H-1-benzopyran-2-yl)methoxy]phenyl]methyl]-2,4-thiazolidinedione (9CI)
MF C24 H27 N O5 S . Unspecified
CI MXS

CM 1



CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin (human), 30Ba-L-arginine-, mixt. with insulin (human) (9CI)
MF C263 H395 N69 O78 S6 . C257 H383 N65 O77 S6
CI MXS

CM 1

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

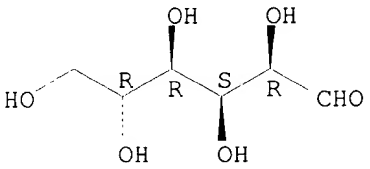
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN D-Glucose, mixt. with 2-hydroxypropanoic acid and insulin (9CI)
MF C6 H12 O6 . C3 H6 O3 . Unspecified
CI MXS

CM 1

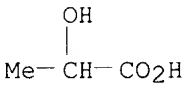
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

Absolute stereochemistry.



CM 3

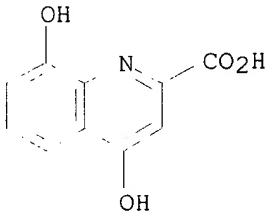


L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, compd. with 4,8-dihydroxy-2-quinolinecarboxylic acid (9CI)
MF C10 H7 N O4 . x Unspecified

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

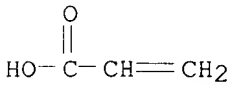
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, compd. with 2-propenoic acid homopolymer (9CI)
MF (C3 H4 O2)x . Unspecified

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CM 3



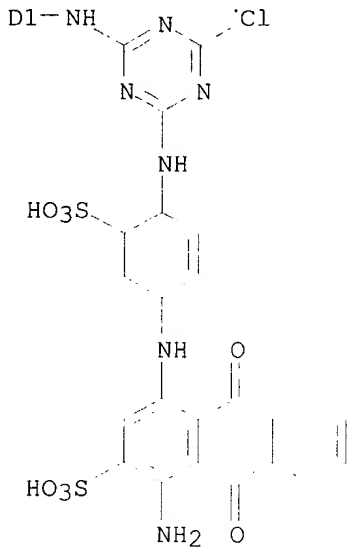
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, compd. with 1-amino-4-[[4-[[4-chloro-6-[[3(or 4)-sulfophenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfophenyl]amino]-9,10-dihydro-9,10-dioxo-2-anthracenesulfonic acid (9CI)
MF C29 H20 Cl N7 O11 S3 . x Unspecified

CM 1

PAGE 1-A

D1-SO_3H

PAGE 2-A



CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin (human), 30Ba-L-arginine-30Bb-L-arginine-, mixt. with insulin (human) (9CI)
MF C269 H407 N73 O79 S6 . C257 H383 N65 O77 S6
CI MXS

CM 1

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

RELATED SEQUENCES AVAILABLE WITH SEQLINK

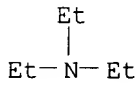
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, mixt. with N,N-diethylethanamine hydrochloride and sodium dodecyl sulfate (9CI)
MF C12 H26 O4 S . C6 H15 N . Cl H . Na . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2



● HCl

CM 3

● Na

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

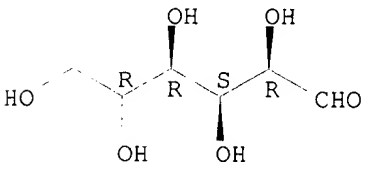
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN D-Glucose, monopotassium salt, mixt. with insulin (9CI)
MF C6 H12 O6 . K . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

Absolute stereochemistry.



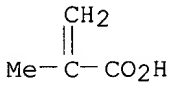
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, compd. with 2-methyl-2-propenoic acid homopolymer (9CI)
MF (C4 H6 O2)x . Unspecified

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CM 3



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN .beta.-Cyclodextrin, compd. with insulin (9CI)
MF C42 H70 O35 . x Unspecified

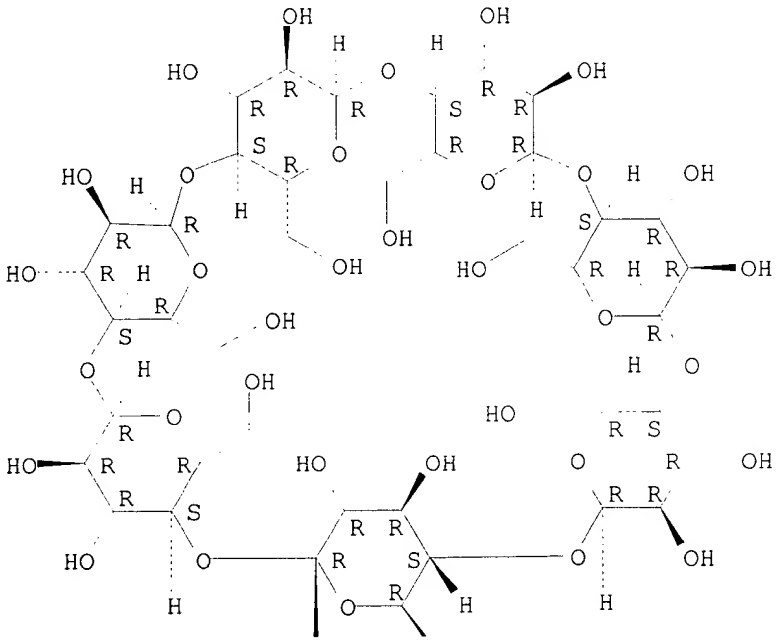
CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN D-Streptamine, O-3-deoxy-4-C-methyl-3-(methylamino)-.beta.-L-arabinopyranosyl-(1.fwdarw.6)-O-[2,6-diamino-2,3,4,6-tetradeoxy-.alpha.-D-erythro-hexopyranosyl-(1.fwdarw.4)]-2-deoxy-, sulfate (salt), mixt. with insulin (9CI)
MF C19 H39 N5 O7 . x H2 O4 S . Unspecified
CI MXS

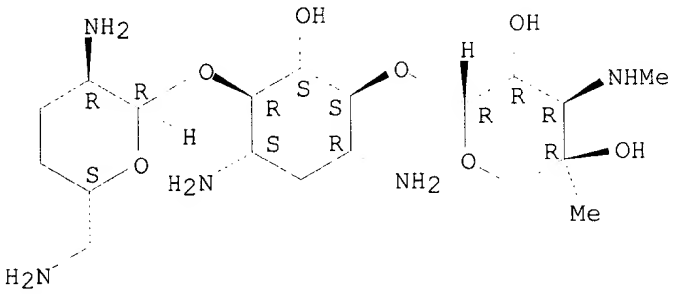
CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

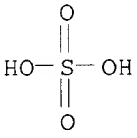
CM 2

CM 3

Absolute stereochemistry.



CM 4



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin zinc, mixt. with insulin (9CI)
MF Unspecified . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

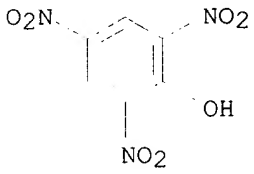
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS

IN Insulin, compd. with 2,4,6-trinitrophenol (9CI)
MF C6 H3 N3 O7 . x Unspecified

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, compd. with magnesium aluminosilicate (9CI)
MF Unspecified . x Unspecified

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

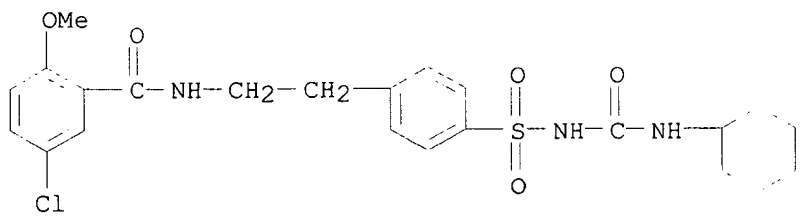
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin (human), mixt. with 5-chloro-N-[2-[4-[[[(cyclohexylamino)carbonyl]amino]sulfonyl]phenyl]ethyl]-2-methoxybenzamide (9CI)
MF C257 H383 N65 O77 S6 . C23 H28 Cl N3 O5 S
CI MXS

CM 1

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, mixt. with pancreatic basic trypsin inhibitor (9CI)
MF Unspecified . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, mixt. with heparin (9CI)
MF Unspecified . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Glucagon, mixt. with epidermal growth factor and insulin (9CI)
MF Unspecified . Unspecified . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, mixt. with proinsulin (9CI)
MF Unspecified . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin (human), mixt. with insulin protamine zinc (9CI)
MF C257 H383 N65 O77 S6 . Unspecified
CI MXS

CM 1

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Calcitonin, mixt. with insulin (9CI)
MF Unspecified . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

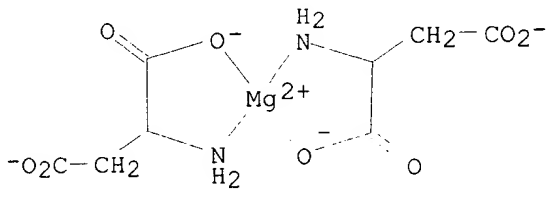
CM 2

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

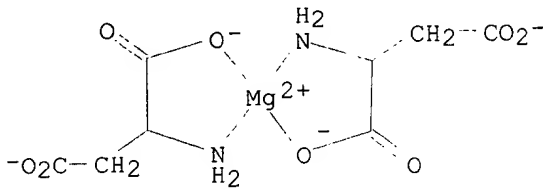
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin, mixt. with aspartic acid monopotassium salt, D-glucose and potassium hydrogen (T-4)-bis[aspartato(2-)-.kappa.N,.kappa.O1]magnesate(2-) (9CI)
MF C8 H10 Mg N2 O8 . C6 H12 O6 . C4 H7 N O4 . H . 2 K . Unspecified
CI MXS

CM 1



● H^+

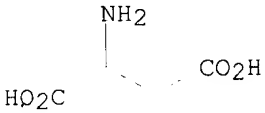
● K^+



CM 2

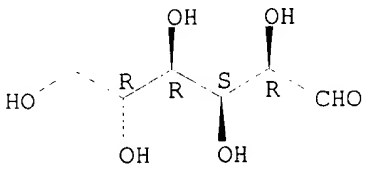
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 3



CM 4

Absolute stereochemistry.



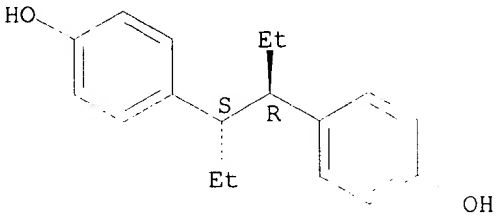
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Pregn-4-ene-3,20-dione, mixt. with (R*,S*)-4,4'-(1,2-diethyl-1,2-ethanediyl)bis[phenol] and insulin (9CI)
MF C21 H30 O2 . C18 H22 O2 . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

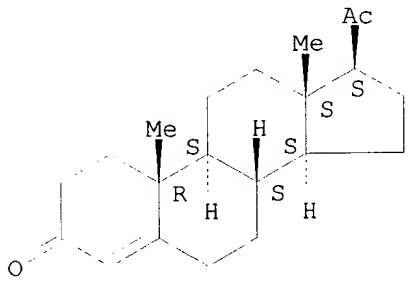
CM 2

Relative stereochemistry.



CM 3

Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

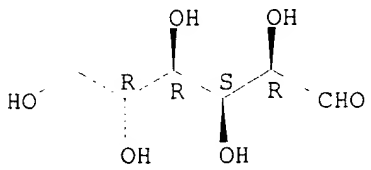
L34 31 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN D-Glucose, mixt. with insulin (9CI)
MF C6 H12 O6 . Unspecified
CI MXS

CM 1

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

Absolute stereochemistry.



ALL ANSWERS HAVE BEEN SCANNED

```
=> d his

     (FILE 'HOME' ENTERED AT 13:09:05 ON 07 MAR 2003)

     FILE 'HCAPLUS' ENTERED AT 13:09:24 ON 07 MAR 2003
L1            71 S WAGENBLAST G?/AU
L2            41 S SUTORIS H?/AU
L3            36 S SCHLIEPHAKE V?/AU
L4          1485 S SCHROEDER J?/AU
L5          1738 S KELLER H?/AU
L6            30 S JAWOREK T?/AU
L7          3348 S L1-6
L8            16 S L7 AND FREE RADICAL
L9         42391 S N-OXYL? OR N-OXIDE OR 1-OXIDE
L10       376085 S PHENOL? OR CRESOL?
L11            0 S BIRTHER
L12            6 S L8 AND L9-11
L13            4 S L12 AND POLYMERI?
                 SELECT RN L13 1-4

     FILE 'REGISTRY' ENTERED AT 13:14:11 ON 07 MAR 2003
L14           25 S E1-25

     FILE 'HCAPLUS' ENTERED AT 13:14:17 ON 07 MAR 2003
L15            4 S L13 AND L14

     FILE 'STNGUIDE' ENTERED AT 13:15:27 ON 07 MAR 2003

     FILE 'HCAPLUS' ENTERED AT 13:17:02 ON 07 MAR 2003
L16        16833 S ?ORTHOPHOSPH?
L17           12 S L16 AND L7
L18            0 S L17 AND L10
L19            0 S L17 AND POLYMER?
L20            1 S L17 AND PURIFICATION/TI
L21            0 S L17 AND ALUMINUM/TI
L22            0 S L17 AND ALUMIN/TI
L23            4 S L17 AND ALUMIUM
L24           12 S L17 AND ?PHOSPH?
L25        40045 S BIRT?
L26            0 S L25 AND L17
L27         1070 S L25 AND COMPOUND
L28           49 S L25(5A)COMPOUND
L29            6 S L28 NOT BIRTH
L30            1 S US6458956/PN
                 SELECT RN L30 1

     FILE 'REGISTRY' ENTERED AT 13:40:58 ON 07 MAR 2003
L31            4 S E26-29

     FILE 'HCAPLUS' ENTERED AT 13:41:16 ON 07 MAR 2003
L32            1 S L30 AND L31

     FILE 'REGISTRY' ENTERED AT 14:52:31 ON 07 MAR 2003
                 E INSULIN/CN
                 E INSULIN (HUMAN)/CN
L33            3 S E272,E32,E96
                 SELECT RN L33 1-3
L34           31 S E282-284/CRN
```

```
=> d

L34  ANSWER 1 OF 31  REGISTRY  COPYRIGHT 2003 ACS
RN   487021-90-9  REGISTRY
CN   Insulin (human), mixt. with insulin protamine zinc (9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   Mixtard 30/70 Penset
MF   C257 H383 N65 O77 S6 . Unspecified
CI   MXS
SR   CA
LC   STN Files:   CA, CAPLUS

     CM   1

     CRN  11061-68-0
     CMF  C257 H383 N65 O77 S6
     CCI  MAN

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

     CM   2

     CRN  9004-17-5
     CMF  Unspecified
     CCI  PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
               1 REFERENCES IN FILE CA (1962 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1962 TO DATE)


=> s "insulin"
L35       6509 "INSULIN"

=> s l35 and rt3/nte
             0 RT3/NTE
L36          0 L35 AND RT3/NTE

=> s l35 and "rt3"
            18 "RT3"
L37          0 L35 AND "RT3"

=> s l35 and nte/fs
             0 NTE/FS
L38          0 L35 AND NTE/FS

=> s l35 and nte/fa
      11739044 NTE/FA
L39       4027 L35 AND NTE/FA

=> s l39 and "rt3"
            18 "RT3"
L40          0 L39 AND "RT3"

=> s "rt3"
L41         18 "RT3"
```

```
=> d scan

L41  18 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   DNA (Thermococcus strain Rt3 gene amy plus flanks) (9CI)
SQL  2372
MF   Unspecified
CI   MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L41  18 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   Extensin (pea clone PsEXT.RT3 root nodule) (9CI)
SQL  144
MF   Unspecified
CI   MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L41  18 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   DNA (human immunodeficiency virus 1 clone RT3.12p gene env
     646-nucleotide fragment) (9CI)
SQL  646
MF   Unspecified
CI   MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L41  18 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   Amylase, .alpha.- (Thermococcus sp. Rt3 gene amy) (9CI)
SQL  469
MF   Unspecified
CI   MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L41  18 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   DNA (rat clone RT3-1B tRNALeu gene) (9CI)
SQL  83
MF   Unspecified
CI   MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2
```

L41 18 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN **DNA (Arabidopsis thaliana mitochondria clone 39e8 Ty1/copia-like element gene RT3) (9CI)**
SQL 349
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L41 18 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN **DNA (pea clone PsEXT.RT3 root nodule extensin cDNA plus flanks) (9CI)**
SQL 462
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L41 18 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN **DNA (human immunodeficiency virus 1 clone RT3.11p gene env 631-nucleotide fragment) (9CI)**
SQL 631
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L41 18 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN **DNA (Rattus tanezumi clone ERV-L Rat Rt3 endogenous retroviral-like element gene pol fragment) (9CI)**
SQL 327
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L41 18 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN **DNA (rat clone RT3-1B tRNAGly gene) (9CI)**
SQL 72
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L41 18 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN **DNA (human immunodeficiency virus 1 clone RT3.6p gene env 661-nucleotide fragment) (9CI)**
SQL 661
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L41 18 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN **Envelope protein (human immunodeficiency virus type 1 isolate RT3 gene env V4/V5 hypervariable region fragment) (9CI)**
SQL 83
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L41 18 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN **DNA (human immunodeficiency virus 1 clone RT3.10p gene env 599-nucleotide fragment) (9CI)**
SQL 599
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

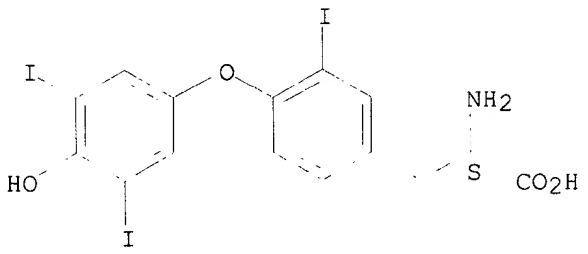
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L41 18 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN **DNA (Thermococcus strain Rt3 16S rRNA gene) (9CI)**
SQL 1457
MF Unspecified
CI MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

L41 18 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Tyrosine, O-(4-hydroxy-3,5-diiodophenyl)-3-iodo- (9CI)
MF C15 H12 I3 N O4
CI COM

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

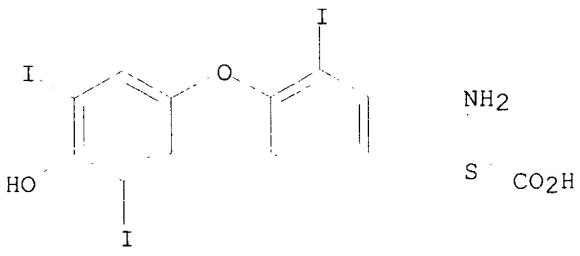
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> s l41 and C15 H12 I3 N O4/mf
50 C15 H12 I3 N O4/MF
L42 1 L41 AND C15 H12 I3 N O4/MF

=> d

L42 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 5817-39-0 REGISTRY
CN L-Tyrosine, O-(4-hydroxy-3,5-diiodophenyl)-3-iodo- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Alanine, 3-[4-(4-hydroxy-3,5-diiodophenoxy)-3-iodophenyl]-, L- (8CI)
OTHER NAMES:
CN 3',5',3-Triiodothyronine
CN 3,3',5'-L-Triiodothyronine
CN 3,3',5'-T3
CN 3,3',5'-Triiodo-L-thyronine
CN 3,3',5'-Triiodothyronine
CN Isoliothyronine
CN Reverse L-triiodothyronine
CN Reverse T3
CN Reverse triiodothyronine
CN **rT3**
FS STEREOSEARCH
DR 2820-50-0
MF **C15 H12 I3 N O4**
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM, DDFU, DRUGU, EMBASE, IPA, MEDLINE, PROMT, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1504 REFERENCES IN FILE CA (1962 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1505 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file caplus

FILE 'CAPLUS' ENTERED AT 15:07:36 ON 07 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 7 Mar 2003 VOL 138 ISS 11
FILE LAST UPDATED: 6 Mar 2003 (20030306/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l42
L43         1514 L42

=> s l43(L)(rrt or rct)/rl
               0 RRT/RL
         2498896 RCT/RL
L44           82 L43(L)(RRT OR RCT)/RL

=> s l44 and insulin
          148504 INSULIN
            1884 INSULINS
          148539 INSULIN
                 (INSULIN OR INSULINS)
L45            0 L44 AND INSULIN

=> s l43 and insulin/it
          101660 INSULIN/IT
             799 INSULINS/IT
          101705 INSULIN/IT
                 ((INSULIN OR INSULINS)/IT)
L46           35 L43 AND INSULIN/IT

=> s l46 and conjug?
          181685 CONJUG?
L47            2 L46 AND CONJUG?

=> d ti 1-2

L47  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2003 ACS
TI   Method for assaying biomolecules and other constituents using indicator
     conjugates with synthetic nucleounits in lateral flow, liquid, and
     dry chemistry techniques

L47  ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2003 ACS
TI   Thyroid hormone metabolism in primary cultured rat hepatocytes.  Effects
     of glucose, glucagon, and insulin
```

=> d scan

L47 2 ANSWERS CAPLUS COPYRIGHT 2003 ACS
CC 2-2 (Hormone Pharmacology)
Section cross-reference(s): 13
TI Thyroid hormone metabolism in primary cultured rat hepatocytes. Effects of glucose, glucagon, and insulin
ST hepatocyte thyroxine metab insulin glucagon; triiodothyronine metab hepatocyte; reverse triiodothyronine metab hepatocyte
IT Thyroid hormones
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(metab. of, by hepatocyte, glucagon and glucose and **insulin** effect on)
IT Liver, metabolism
(hepatocyte, thyroid hormones metab. by, glucagon and glucose and **insulin** effect on)
IT 51-52-5
RL: BIOL (Biological study)
(deiodinases of hepatocyte response to, thyroid hormone metab. in relation to)
IT **5817-39-0** 6893-02-3
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(metab. of, by hepatocyte, concn. effect on)
IT 51-48-9, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
(metab. of, by hepatocyte, glucagon and glucose and **insulin** effect on)
IT 70712-46-8 74506-30-2
RL: BIOL (Biological study)
(of hepatocyte, propylthiouracil effect on)
IT 50-99-7, biological studies
RL: BIOL (Biological study)
(thyroid hormone metab. by hepatocytes in relation to)
IT 9004-10-8, biological studies
RL: BIOL (Biological study)
(thyroxine deiodination by hepatocyte stimulation by, glucagon inhibition of)
IT 9007-92-5, biological studies
RL: BIOL (Biological study)
(thyroxine deiodination stimulation by **insulin** inhibition by, in hepatocyte)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L47 2 ANSWERS CAPLUS COPYRIGHT 2003 ACS
IC ICM C12Q001-68
NCL 435006000
CC 9-16 (Biochemical Methods)
TI Method for assaying biomolecules and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liquid, and dry chemistry techniques
ST dipstick lateral flow device oligonucleotide aptamer biomol drug detection
IT Corticosteroids, analysis
RL: ANT (Analyte); ANST (Analytical study)

(17-hydroxy; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Steroids, analysis
RL: ANT (Analyte); ANST (Analytical study)
(17-ketogenic; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Proteins
RL: ANT (Analyte); ANST (Analytical study)
(C-reactive; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antigens
RL: ANT (Analyte); ANST (Analytical study)
(EBNA (Epstein-Barr virus-assocd. nuclear antigen), IgG binding to; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antigens
RL: ANT (Analyte); ANST (Analytical study)
(Epstein-Barr early; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Immunoglobulins
RL: ANT (Analyte); ANST (Analytical study)
(G, anti-peroxidase; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Cytomegalovirus
Mycoplasma
Rubella
Toxoplasma
(IgG and IgM binding to; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Helicobacter pylori
Human herpesvirus 1
Human herpesvirus 2
(IgG binding to; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Legionella
(IgG, IgM, and IgA binding to; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antigens
RL: ANT (Analyte); ANST (Analytical study)
(VCA (viral capsid antigen), IgG and IgM binding to Epstein-Barr; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Entamoeba histolytica
(amebiasis; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Proteins
RL: ANT (Analyte); ANST (Analytical study)
(amyloid-assocd.; method for assaying biomols. and other constituents

using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Neutrophil
(antibodies binding to; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Cardiolipins
RL: ANT (Analyte); ANST (Analytical study)
(antibodies binding to; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antibodies
RL: ANT (Analyte); ANST (Analytical study)
(antinuclear; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antibodies
RL: ANT (Analyte); ANST (Analytical study)
(autoantibodies, Jo-1; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antibodies
RL: ANT (Analyte); ANST (Analytical study)
(autoantibodies, SS-A/Ro; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antibodies
RL: ANT (Analyte); ANST (Analytical study)
(autoantibodies, SS-B/La; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antibodies
RL: ANT (Analyte); ANST (Analytical study)
(autoantibodies, Scl-70; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antibodies
RL: ANT (Analyte); ANST (Analytical study)
(autoantibodies, Sm (Smith antigen); method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antibodies
RL: ANT (Analyte); ANST (Analytical study)
(autoantibodies, Sm/RNP; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antigens
RL: ANT (Analyte); ANST (Analytical study)
(cancer antigen 125; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Hemoglobins
RL: ANT (Analyte); ANST (Analytical study)
(carboxyhemoglobins; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Latex
(colored particles of, **conjugates**; method for assaying biomols. and other constituents using indicator **conjugates**

with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Metals, biological studies
Plastics, biological studies
Rubber, biological studies
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(colored particles of, **conjugates**; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Complement
RL: ANT (Analyte); ANST (Analytical study)
(components of; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT DNA
RL: ANT (Analyte); ANST (Analytical study)
(double-stranded, antibodies binding to; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antigens
RL: ANT (Analyte); ANST (Analytical study)
(extractable nuclear; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Fats and Glyceridic oils, analysis
RL: ANT (Analyte); ANST (Analytical study)
(fecal; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Proteins
RL: ANT (Analyte); ANST (Analytical study)
(fetoproteins; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Enzymes, biological studies
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(galactosaminidase, indicator; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Enzymes, biological studies
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(glucosaminidase, indicator;.method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Lipoproteins
RL: ANT (Analyte); ANST (Analytical study)
(high-d.; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Enzymes, biological studies
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(hydroxybenzoate hydroxylase, indicator; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Enzymes, biological studies
RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(maltosidase, indicator; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Angiogenesis
Blood
Blood analysis
Human herpesvirus 3
Human immunodeficiency virus
Leukocyte
Urine analysis
(method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Albumins, analysis
Alcohols, analysis
Antibodies
Apolipoproteins
Bile acids
Cannabinoids
Carotenes, analysis
Catecholamines, analysis
Estrogens
Fatty acids, analysis
Ferritins
Fibrinogens
Gastric acid
Glycerides, analysis
Gonadotropins
Haptoglobin
Hemoglobins
Hemoglobins, methemoglobins
Hemopexins
Immunoglobulins
Ketone bodies
Lecithins
Lipoproteins
Melanins
Mucopolysaccharides, analysis
Myelin basic protein
Myoglobins
Opioids
Pentoses
Phenols, analysis
Phospholipids, analysis
Prostaglandins
Prostate-specific antigen
Rheumatoid factors
Thyroglobulin
Transcortins
Transferrins
Transthyretin
Vitamins
.alpha.1-Acid glycoprotein
RL: ANT (Analyte); ANST (Analytical study)
(method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq.,

and dry chem. techniques)

IT Antibodies
RL: ANT (Analyte); ANST (Analytical study)
(microsomal; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Aptamers
(oligonucleotide; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Antibodies
RL: ANT (Analyte); ANST (Analytical study)
(thyroid; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Globulins, analysis
RL: ANT (Analyte); ANST (Analytical study)
(thyroxine-binding; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT Pigments, biological
(urobilinogens; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT 128028-50-2, Proteinase-3
RL: ANT (Analyte); ANST (Analytical study)
(IgG binding to; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT 50-36-2, Cocaine
RL: ANT (Analyte); ANST (Analytical study)
(and metabolites; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT 144-62-7, Ethanedioic acid, analysis
RL: ANT (Analyte); ANST (Analytical study)
(buffer/analyte; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT 50-21-5, analysis
RL: ANT (Analyte); ARU (Analytical role, unclassified); ANST (Analytical study)
(buffer/analyte; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT 77-86-1, TRIS 77-92-9, Citric acid, analysis 102-71-6, Triethanolamine, analysis 103-47-9, CHES 110-15-6, Succinic acid, analysis 150-25-4, BICINE 463-79-6, Carbonic acid, analysis 497-19-8, Sodium carbonate, analysis 868-14-4, Potassium hydrogen tartrate 877-24-7, Potassium hydrogen phthalate 1132-61-2, MOPS 1135-40-6, CAPS 1303-96-4, Borax 1330-43-4, Sodium tetraborate 4432-31-9, MES 5625-37-6, PIPES 5704-04-1, TRICINE 6976-37-0, BIS-TRIS 7365-44-8, TES 7365-45-9, HEPES 7365-82-4, ACES 7601-89-0, Sodium perchlorate 7601-90-3, Perchloric acid, analysis 7664-38-2, Phosphoric acid, analysis 7664-93-9, Sulfuric acid, analysis 7697-37-2, Nitric acid, analysis 7775-09-9, Sodium chlorate 10043-35-3, Boric acid, analysis 10191-18-1, BES 10196-30-2, 2-Amino-2-ethyl-1-propanol 13530-68-2, Chromic acid 16052-06-5, EPPS 26239-55-4, ADA 29915-38-6, N-Tris[Hydroxymethyl]methyl-3-

aminopropanesulfonic acid 64431-96-5, BIS-TRIS PROPANE 68189-43-5, POPSO 68399-77-9, MOPSO 68399-78-0, HEPPSO 68399-79-1, AMPSO 68399-80-4, DIPSO 68399-81-5, TAPSO 73463-39-5, CAPSO 109191-31-3, N-[2-Acetamido]-2-aminoethanesulfonic acid)
RL: ARU (Analytical role, unclassified); ANST (Analytical study)
(buffer; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT 9001-60-9, Lactate dehydrogenase 9001-78-9, Alkaline phosphatase 9002-12-4, Uricase
RL: ANT (Analyte); ANST (Analytical study)
(indicator/analyte; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT 53-59-8, NADP 53-84-9, Nicotinamide adenine dinucleotide 63-42-3 69-79-4 83-07-8, 4-Aminoantipyrine 87-66-1, Pyrogallol 91-67-8, N,N-Diethyl-m-toluidine 91-95-2, 3,3'-Diaminobenzidine 108-95-2, Phenol, biological studies 119-90-4 120-83-2, 2,4-Dichlorophenol 121-69-7, Dimethylaniline, biological studies 132-32-1, 3-Amino-9-ethyl carbazole 298-83-9, Nitro Blue Tetrazolium 369-07-3, 2-Nitrophenyl-.beta.-D-galactopyranoside 1094-61-7, Nicotinamide mononucleotide 1128-67-2, 3-Methyl-2-benzothiazolinonehydrazone 1851-07-6, Nicotinamide hypoxanthine dinucleotide 2280-44-6, Glucopyranose 2438-80-4 3025-88-5, 2-5, Dimethyl-2,5-dihydroperoxyhexane 3150-24-1 3416-24-8, Glucosamine 5094-33-7, 4-Aminophenyl-.beta.-D-galactopyranoside 6160-80-1, 4-Methylumbelliferyl-.beta.-D-glucuronide 6556-12-3, Glucuronic acid 6739-64-6, Nicotinamide hypoxanthine dinucleotide phosphate 7240-90-6 7298-93-3, .alpha.-NAD 7535-00-4, Galactosamine 9001-34-7, Galactosidase 9001-37-0, Glucose oxidase 9001-40-5, Glucose-6-phosphate dehydrogenase 9001-45-0, Glucuronidase 9001-46-1, Glutamate dehydrogenase 9001-55-2, Hydroxybutyrate dehydrogenase 9001-64-3, Malate dehydrogenase 9001-65-4, Mannitol dehydrogenase 9001-68-7, NADPH oxidoreductase 9002-17-9, Xanthine oxidase 9003-99-0, Peroxidase 9013-05-2, Phosphatase 9013-79-0, Esterase 9016-17-5, Aryl sulfatase 9016-18-6, Carboxyl esterase 9025-35-8, .alpha.-Galactosidase 9026-00-0, Cholesterol esterase 9028-14-2, Glycerol dehydrogenase 9028-53-9, Glucose dehydrogenase 9028-67-5, Choline oxidase 9028-76-6, Cholesterol oxidase 9028-84-6, Formaldehyde dehydrogenase 9029-44-1, Ascorbate oxidase 9031-11-2, .beta.-Lactosidase 9032-92-2, Glycosidase 9033-06-1, Glucosidase 9035-73-8, Oxidase 9035-82-9, Dehydrogenase 9046-28-0, Glycerophosphate oxidase 9046-59-7, Hydroxylase 9055-15-6, Oxidoreductase 9067-74-7, Arabinosidase 9068-67-1, Sulfatase 9073-63-6, Alcohol oxidase 9075-65-4, Glycerol-3-phosphate dehydrogenase 9082-71-7, Leucine dehydrogenase 10257-31-5, Xylopyranose 26281-43-6 28752-68-3, ABTS 33993-25-8, 2-Naphthyl-.beta.-D-galactopyranoside 36473-36-6 36783-03-6, TOPS 37211-66-8, Mannosidase 37329-65-0, .beta.-D-Cellobiosidase 45935-73-7, p-Hydroxybenzene Sulfonate 46032-76-2, Mannopyranose 46489-28-5 50443-29-3 51349-63-4 51652-08-5 54827-17-7, 3,3',5,5'-Tetramethylbenzidine 56846-39-0 56973-46-7 61116-22-1, Acyl-CoA oxidase 72943-20-5 82611-88-9 82692-96-4, ADOS 83777-30-4, DAOS 88795-34-0, ADPS 89299-64-9, Arabinopyranose 90836-13-8, ALOS 91395-87-8 93863-88-8 94129-58-5 96497-76-6 97753-82-7 99304-66-2, DAPS 99304-67-3, MAPS 101764-19-6 102636-89-5, ALPS 110592-38-6 111070-05-4, Fucosidase 112046-91-0 113079-84-8 125858-89-1, Xylosidase 126400-78-0, N-Ethyl-N-(2-hydroxy-3-sulfopropyl)-3,5-dimethylaniline 126787-65-3 135622-84-3, Fructose dehydrogenase 138182-21-5 181066-50-2, Bis-MAPS-C 2 207595-15-1 207727-11-5 380637-04-7, MADB 477532-32-4

RL: ARG (Analytical reagent use); DGN (Diagnostic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(indicator; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT 50-00-0, Formaldehyde, analysis 50-02-2, Dexamethasone 50-06-6, Phenobarbital, analysis 50-22-6, Corticosterone 50-23-7, Cortisol 50-27-1, Estriol 50-28-2, Estradiol, analysis 50-33-9, Phenylbutazone, analysis 50-47-5, Desipramine 50-48-6, Amitriptyline 50-49-7, Imipramine 50-52-2, Thioridazine 50-53-3, Chlorpromazine, analysis 50-56-6, Oxytocin, analysis 50-67-9, Serotonin, analysis 50-81-7, Ascorbic acid, analysis 50-99-7, Glucose, analysis 51-06-9, Procainamide 51-35-4, Hydroxyproline 51-48-9, Thyroxine, analysis 52-39-1, Aldosterone 52-90-4, Cysteine, analysis 53-02-1, Tetrahydrocortisol 53-16-7, Estrone, analysis 53-43-0, Dehydroepiandrosterone 54-16-0, 5-Hydroxyindoleacetic acid, analysis 54-36-4, Metyrapone 54-85-3, Isoniazid 55-10-7, Vanillylmandelic acid 56-40-6, Glycine, analysis 56-41-7, Alanine, analysis 56-54-2, Quinidine 56-73-5, Glucose-6-phosphate 56-75-7, Chloramphenicol 56-81-5, Glycerol, analysis 56-85-9, Glutamine, analysis 56-89-3, Cystine, analysis 57-00-1, Creatine 57-12-5, Cyanide, analysis 57-13-6, Urea, analysis 57-27-2, Morphine, analysis 57-41-0, Diphenylhydantoin 57-42-1, Meperidine 57-43-2, Amobarbital 57-48-7, Fructose, analysis 57-50-1, Sucrose, analysis 57-53-4, Meprobamate 57-83-0, Progesterone, analysis 57-88-5, Cholesterol, analysis 58-08-2, Caffeine, analysis 58-22-0, Testosterone 58-25-3, Chlordiazepoxide 58-55-9, Theophylline, analysis 58-86-6, Xylose, analysis 59-05-2, Methotrexate 59-23-4, Galactose, analysis 59-30-3, analysis 59-67-6, Niacin, analysis 60-18-4, Tyrosine, analysis 60-27-5, Creatinine 60-92-4, Cyclic AMP 61-90-5, Leucine, analysis 62-44-2, Phenacetin 63-05-8, Androstenedione 63-42-3, Lactose 63-68-3, Methionine, analysis 63-91-2, Phenylalanine, analysis 64-17-5, Ethanol, analysis 64-77-7, Tolbutamide 64-85-7, 11-Deoxycorticosterone 67-56-1, Methanol, analysis 68-60-0, Tetrahydrodeoxycortisol 68-96-2, 17-Hydroxyprogesterone 69-72-7D, Salicylic acid, derivs. 69-93-2, Uric acid, analysis 70-18-8, Glutathione, analysis 72-18-4, Valine, analysis 72-44-6, Methaqualone 72-69-5, Nortriptyline 73-32-5, Isoleucine, analysis 76-42-6, Oxycodone 76-57-3, Codeine 76-73-3, Secobarbital 76-74-4, Pentobarbital 76-75-5, Thiopental 76-99-3, Methadone 77-10-1, Phencyclidine 77-21-4, Glutethimide 77-41-8, Methsuximide 77-67-8, Ethosuximide 79-14-1, Glycolic acid, analysis 79-83-4, Pantothenic acid 81-25-4, Cholic acid 82-58-6, Lysergic acid 83-44-3, Deoxycholic acid 83-88-5, Riboflavin, analysis 86-34-0, Phensuximide 87-86-5, Pentachlorophenol 97-31-4, Normetanephrine 99-66-1, Valproic acid 103-90-2, Acetaminophen 107-21-1, Ethylene glycol, analysis 113-18-8, Ethchlorvynol 123-63-7, Paraldehyde 125-33-7, Primidone 125-64-4, Methyprylon 127-17-3, Pyruvic acid, analysis 137-58-6, Lidocaine 143-74-8, Phenolsulfonphthalein 145-13-1, Pregnenolone 152-58-9, 11-Deoxycortisol 298-46-4, Carbamazepine 299-42-3, Ephedrine 300-62-9, Amphetamine 302-04-5, Thiocyanate, analysis 302-17-0, Chloral hydrate 306-08-1, Homovanillic acid 359-83-1, Pentazocine 438-60-8, Protriptyline 439-14-5, Diazepam 451-13-8, Homogentisic acid 466-99-9, Hydromorphone 469-62-5, Propoxyphene 487-90-1, Porphobilinogen 521-18-6, Dihydrotestosterone 525-66-6, Propranolol 537-46-2, Methamphetamine 553-12-8, Protoporphyrin 555-30-6, Methyldopa 591-81-1, .gamma.-Hydroxybutyric acid 604-75-1, Oxazepam 635-65-4, Bilirubin, analysis 651-48-9, Dehydroepiandrosterone sulfate 846-49-1, Lorazepam 1098-45-9, Pregnanetriol 1319-82-0, Aminocaproic

acid 1330-20-7, Xylene, analysis 1393-25-5, Secretin 1403-66-3, Gentamicin 1404-90-6, Vancomycin 1622-61-3, Clonazepam 1668-19-5, Doxepin 3737-09-5, Disopyramide 4205-90-7, Clonidine 4429-04-3, Fructosamine 4685-14-7, Paraquat 4697-36-3, Carbenicillin 5001-33-2, Metanephrine **5817-39-0**, Reverse triiodothyronine 6027-13-0, Homocysteine 6893-02-3, Triiodothyronine 7439-89-6, Iron, analysis 7439-92-1, Lead, analysis 7439-93-2, Lithium, analysis 7439-95-4, Magnesium, analysis 7439-97-6, Mercury, analysis 7439-98-7, Molybdenum, analysis 7440-02-0, Nickel, analysis 7440-28-0, Thallium, analysis 7440-47-3, Chromium, analysis 7440-57-5, Gold, analysis 7440-66-6, Zinc, analysis 7440-70-2, Calcium, analysis 7782-49-2, Selenium, analysis 7783-06-4, Hydrogen sulfide, analysis 8063-07-8, Kanamycin 9000-86-6, Alanine aminotransferase 9000-92-4, Amylase 9000-94-6, Antithrombin 9001-08-5, Pseudocholinesterase 9001-10-9, Pepsinogen 9001-15-4, Creatine kinase 9001-58-5, Isocitrate dehydrogenase 9001-62-1, Lipase 9001-63-2, Lysozyme 9001-77-8, Acid phosphatase 9001-80-3, Phosphofructokinase 9001-91-6, Plasminogen 9002-60-2, Adrenocorticotropic hormone, analysis 9002-61-3, Chorionic gonadotropin 9002-64-6, Parathyroid hormone 9002-68-0, Follicle stimulating hormone 9002-71-5, Thyroid stimulating hormone 9002-72-6, Growth hormone 9002-76-0, Gastrin 9004-07-3, Chymotrypsin 9004-10-8, **Insulin**, analysis 9007-12-9, Calcitonin 9007-92-5, Glucagon, analysis 9014-48-6, Transketolase 9015-94-5, Renin, analysis 9024-52-6, Aldolase 9035-54-5, Placental lactogen 9035-68-1, Proinsulin 9035-81-8, Antitrypsin 11000-17-2, Antidiuretic hormone 11016-39-0, Properdin 12794-10-4D, Benzodiazepine, derivs. 14797-65-0, Nitrite, analysis 14838-15-4, Phenylpropanolamine 15687-27-1, Ibuprofen 17617-23-1, Flurazepam 20830-75-5, Digoxin 23887-31-2, Clorazepate 24305-27-9, Thyrotropin-releasing hormone 24959-67-9, Bromide, analysis 26316-36-9, Uroporphyrin 26445-07-8, Pregnanediol 27121-71-7, Coproporphyrin 29679-58-1, Fenoprofen 32795-44-1, n-Acetylprocainamide 32986-56-4, Tobramycin 37221-79-7, Vasoactive intestinal polypeptide 37517-28-5, Amikacin 39335-01-8, Macroamylase 51481-61-9, Cimetidine 54143-55-4, Flecainide 56391-56-1, Netilmicin 59112-80-0, c-Peptide 59763-91-6, Pancreatic polypeptide 59865-13-3, Cyclosporine 67763-96-6, Somatomedin c 69776-17-6 85876-02-4, Glutamyltransferase 152923-57-4, Lutropin
RL: ANT (Analyte); ANST (Analytical study)
(method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

IT 7727-37-9, Nitrogen, analysis
RL: ANT (Analyte); ANST (Analytical study)
(protein-assocd. and nonprotein; method for assaying biomols. and other constituents using indicator **conjugates** with synthetic nucleounits in lateral flow, liq., and dry chem. techniques)

ALL ANSWERS HAVE BEEN SCANNED

=> d his

(FILE 'HOME' ENTERED AT 13:09:05 ON 07 MAR 2003)

FILE 'HCAPLUS' ENTERED AT 13:09:24 ON 07 MAR 2003
L1 71 S WAGENBLAST G?/AU
L2 41 S SUTORIS H?/AU
L3 36 S SCHLIEPHAKE V?/AU
L4 1485 S SCHROEDER J?/AU

```
L5          1738 S KELLER H?/AU
L6            30 S JAWOREK T?/AU
L7          3348 S L1-6
L8            16 S L7 AND FREE RADICAL
L9         42391 S N-OXYL? OR N-OXIDE OR 1-OXIDE
L10       376085 S PHENOL? OR CRESOL?
L11            0 S BIRTHER
L12            6 S L8 AND L9-11
L13            4 S L12 AND POLYMERI?
                 SELECT RN L13 1-4

     FILE 'REGISTRY' ENTERED AT 13:14:11 ON 07 MAR 2003
L14           25 S E1-25

     FILE 'HCAPLUS' ENTERED AT 13:14:17 ON 07 MAR 2003
L15            4 S L13 AND L14

     FILE 'STNGUIDE' ENTERED AT 13:15:27 ON 07 MAR 2003

     FILE 'HCAPLUS' ENTERED AT 13:17:02 ON 07 MAR 2003
L16        16833 S ?ORTHOPHOSPH?
L17           12 S L16 AND L7
L18            0 S L17 AND L10
L19            0 S L17 AND POLYMER?
L20            1 S L17 AND PURIFICATION/TI
L21            0 S L17 AND ALUMINUM/TI
L22            0 S L17 AND ALUMIN/TI
L23            4 S L17 AND ALUMIUM
L24           12 S L17 AND ?PHOSPH?
L25        40045 S BIRT?
L26            0 S L25 AND L17
L27         1070 S L25 AND COMPOUND
L28           49 S L25(5A)COMPOUND
L29            6 S L28 NOT BIRTH
L30            1 S US6458956/PN
                 SELECT RN L30 1

     FILE 'REGISTRY' ENTERED AT 13:40:58 ON 07 MAR 2003
L31            4 S E26-29

     FILE 'HCAPLUS' ENTERED AT 13:41:16 ON 07 MAR 2003
L32            1 S L30 AND L31

     FILE 'REGISTRY' ENTERED AT 14:52:31 ON 07 MAR 2003
                 E INSULIN/CN
                 E INSULIN (HUMAN)/CN
L33            3 S E272,E32,E96
                 SELECT RN L33 1-3
L34           31 S E282-284/CRN
L35         6509 S "INSULIN"
L36            0 S L35 AND RT3/NTE
L37            0 S L35 AND "RT3"
L38            0 S L35 AND NTE/FS
L39         4027 S L35 AND NTE/FA
L40            0 S L39 AND "RT3"
L41           18 S "RT3"
L42            1 S L41 AND C15 H12 I3 N O4/MF

     FILE 'CAPLUS' ENTERED AT 15:07:36 ON 07 MAR 2003
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L43         1514 S L42
L44           82 S L43(L)(RRT OR RCT)/RL
L45            0 S L44 AND INSULIN
L46           35 S L43 AND INSULIN/IT
L47            2 S L46 AND CONJUG?

=> s l43 and insulin
        148504 INSULIN
          1884 INSULINS
        148539 INSULIN
                  (INSULIN OR INSULINS)
L48          60 L43 AND INSULIN

=> s l48 and conjugat?
        180905 CONJUGAT?
L49           2 L48 AND CONJUGAT?

=> d ti 1-2

L49  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2003 ACS
TI   Method for assaying biomolecules and other constituents using indicator
     conjugates with synthetic nucleounits in lateral flow, liquid, and
     dry chemistry techniques

L49  ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2003 ACS
TI   Thyroid hormone metabolism in primary cultured rat hepatocytes.  Effects
     of glucose, glucagon, and insulin


=> s l48 and link?
        352651 LINK?
L50           2 L48 AND LINK?

=> d ti 1-2

L50  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2003 ACS
TI   Effects of thyroid hormones on cartilage sulfation in sex-linked
     dwarf chickens

L50  ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2003 ACS
TI   Effect of the sex-linked dwarf gene on thyrotropic and
     somatotropic axes in the chick embryo


=> s l48 and covalent?
         79233 COVALENT?
L51           0 L48 AND COVALENT?

=> s l48 and react?
       4107506 REACT?
L52           3 L48 AND REACT?

=> d ti 1-3

L52  ANSWER 1 OF 3  CAPLUS  COPYRIGHT 2003 ACS
TI   Method for assaying biomolecules and other constituents using indicator
     conjugates with synthetic nucleounits in lateral flow, liquid, and dry
     chemistry techniques
```

L52 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Endocrine and metabolic responses in children with meningoccocal sepsis: striking differences between survivors and nonsurvivors

L52 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Hormonal control of a low Km (type II) iodothyronine 5'-deiodinase in cultured NB41A3 mouse neuroblastoma cells

=> d his

(FILE 'HOME' ENTERED AT 13:09:05 ON 07 MAR 2003)

FILE 'HCAPLUS' ENTERED AT 13:09:24 ON 07 MAR 2003
L1 71 S WAGENBLAST G?/AU
L2 41 S SUTORIS H?/AU
L3 36 S SCHLIEPHAKE V?/AU
L4 1485 S SCHROEDER J?/AU
L5 1738 S KELLER H?/AU
L6 30 S JAWOREK T?/AU
L7 3348 S L1-6
L8 16 S L7 AND FREE RADICAL
L9 42391 S N-OXYL? OR N-OXIDE OR 1-OXIDE
L10 376085 S PHENOL? OR CRESOL?
L11 0 S BIRTHER
L12 6 S L8 AND L9-11
L13 4 S L12 AND POLYMERI?
SELECT RN L13 1-4

FILE 'REGISTRY' ENTERED AT 13:14:11 ON 07 MAR 2003
L14 25 S E1-25

FILE 'HCAPLUS' ENTERED AT 13:14:17 ON 07 MAR 2003
L15 4 S L13 AND L14

FILE 'STNGUIDE' ENTERED AT 13:15:27 ON 07 MAR 2003

FILE 'HCAPLUS' ENTERED AT 13:17:02 ON 07 MAR 2003
L16 16833 S ?ORTHOPHOSPH?
L17 12 S L16 AND L7
L18 0 S L17 AND L10
L19 0 S L17 AND POLYMER?
L20 1 S L17 AND PURIFICATION/TI
L21 0 S L17 AND ALUMINUM/TI
L22 0 S L17 AND ALUMIN/TI
L23 4 S L17 AND ALUMIUM
L24 12 S L17 AND ?PHOSPH?
L25 40045 S BIRT?
L26 0 S L25 AND L17
L27 1070 S L25 AND COMPOUND
L28 49 S L25(5A)COMPOUND
L29 6 S L28 NOT BIRTH
L30 1 S US6458956/PN
SELECT RN L30 1

FILE 'REGISTRY' ENTERED AT 13:40:58 ON 07 MAR 2003
L31 4 S E26-29

FILE 'HCAPLUS' ENTERED AT 13:41:16 ON 07 MAR 2003

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L32           1 S L30 AND L31

     FILE 'REGISTRY' ENTERED AT 14:52:31 ON 07 MAR 2003
                 E INSULIN/CN
                 E INSULIN (HUMAN)/CN
L33           3 S E272,E32,E96
                 SELECT RN L33 1-3
L34          31 S E282-284/CRN
L35        6509 S "INSULIN"
L36           0 S L35 AND RT3/NTE
L37           0 S L35 AND "RT3"
L38           0 S L35 AND NTE/FS
L39        4027 S L35 AND NTE/FA
L40           0 S L39 AND "RT3"
L41          18 S "RT3"
L42           1 S L41 AND C15 H12 I3 N O4/MF

     FILE 'CAPLUS' ENTERED AT 15:07:36 ON 07 MAR 2003
L43        1514 S L42
L44          82 S L43(L)(RRT OR RCT)/RL
L45           0 S L44 AND INSULIN
L46          35 S L43 AND INSULIN/IT
L47           2 S L46 AND CONJUG?
L48          60 S L43 AND INSULIN
L49           2 S L48 AND CONJUGAT?
L50           2 S L48 AND LINK?
L51           0 S L48 AND COVALENT?
L52           3 S L48 AND REACT?

=> s insulin and rt3
        148504 INSULIN
          1884 INSULINS
        148539 INSULIN
                  (INSULIN OR INSULINS)
          1262 RT3
L53         52 INSULIN AND RT3

=> s l53 and conjugat?
        180905 CONJUGAT?
L54           1 L53 AND CONJUGAT?

=> d ti

L54  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS
TI   Rapid transient increase of biliary triiodothyronine excretion during
     short-term infusion of glucose and arginine in rats


=> d ab

L54  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS
AB   Studies were carried out to est. the excretion of triiodothyronine by bile
     in groups of rats infused with glucose, arginine or glucose combined with
     various doses of insulin.  Groups of about eight male Wistar
     Olac rats were anesthetized by pentobarbital and thin polyethylene tubings
     were inserted into bile duct and femoral vein.  The bile was collected
     into pre-weighed glass vials which were changed every hour.  The first one
     hour interval was considered as control and during the second hour the
     following i.v. infusions were applied: 1. 4 mL 30% glucose; 2. arginine
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(80 mg/2.4 mL saline); 3. 4 mL 30% glucose contg. 62.5, 125, 250 or 500 mU **insulin**. In some groups cycloheximide (2.5 mg/kg) or somatostatin (20 .mu.g/kg) were used. The aliquots of bile were treated with .beta.-glucuronidase/arylsulfatase and the concn. of total (i.e., **conjugated** plus unconjugated) triiodothyronine was estd. by specific inhouse RIA. The results were expressed as ng/h and the vol. of bile was estd. by weighing the previously tared collection vials. Significant increase of biliary T3 excretion was found during the 60 min infusion of glucose or arginine. However, in fed rats such increase did not continue after the termination of infusion, while in fasted rats the increase was obsd. still for next 60 min after the infusion. The attempts to further stimulate the excretion of T3 by the addn. of small **insulin** doses (62.5, 125, 250 and 500 mU) to the infused glucose showed inversed effect: by such intervention the increase of T3 was blunted by higher doses, while at lower doses insignificant increase appeared. The increase of biliary T3 excretion was also blunted by cycloheximide (translation inhibitor) and somatostatin (**insulin** release inhibitor) both in normal fed and 24 h fasted rats. Thus, short-term i.v. infusion of glucose and arginine resulted in immediate and transient increase of biliary T3 excretion which was inhibited by both the cycloheximide and somatostatin. Taken together with the authors' previous findings, this supports the view on rapid fluctuation of hepatic iodothyronine metab. as related to preprandial (prevailing effect of gluconeogenic hormones resulting in preferential formation of **rT3**) and postprandial period (predominant effect of **insulin** resulting in preferential formation of T3).

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=> d his

     (FILE 'HOME' ENTERED AT 13:09:05 ON 07 MAR 2003)

     FILE 'HCAPLUS' ENTERED AT 13:09:24 ON 07 MAR 2003
L1            71 S WAGENBLAST G?/AU
L2            41 S SUTORIS H?/AU
L3            36 S SCHLIEPHAKE V?/AU
L4          1485 S SCHROEDER J?/AU
L5          1738 S KELLER H?/AU
L6            30 S JAWOREK T?/AU
L7          3348 S L1-6
L8            16 S L7 AND FREE RADICAL
L9         42391 S N-OXYL? OR N-OXIDE OR 1-OXIDE
L10       376085 S PHENOL? OR CRESOL?
L11            0 S BIRTHER
L12            6 S L8 AND L9-11
L13            4 S L12 AND POLYMERI?
                 SELECT RN L13 1-4

     FILE 'REGISTRY' ENTERED AT 13:14:11 ON 07 MAR 2003
L14           25 S E1-25

     FILE 'HCAPLUS' ENTERED AT 13:14:17 ON 07 MAR 2003
L15            4 S L13 AND L14

     FILE 'STNGUIDE' ENTERED AT 13:15:27 ON 07 MAR 2003

     FILE 'HCAPLUS' ENTERED AT 13:17:02 ON 07 MAR 2003
L16        16833 S ?ORTHOPHOSPH?
L17           12 S L16 AND L7
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L18            0 S L17 AND L10
L19            0 S L17 AND POLYMER?
L20            1 S L17 AND PURIFICATION/TI
L21            0 S L17 AND ALUMINUM/TI
L22            0 S L17 AND ALUMIN/TI
L23            4 S L17 AND ALUMIUM
L24           12 S L17 AND ?PHOSPH?
L25        40045 S BIRT?
L26            0 S L25 AND L17
L27         1070 S L25 AND COMPOUND
L28           49 S L25(5A)COMPOUND
L29            6 S L28 NOT BIRTH
L30            1 S US6458956/PN
                 SELECT RN L30 1

     FILE 'REGISTRY' ENTERED AT 13:40:58 ON 07 MAR 2003
L31            4 S E26-29

     FILE 'HCAPLUS' ENTERED AT 13:41:16 ON 07 MAR 2003
L32            1 S L30 AND L31

     FILE 'REGISTRY' ENTERED AT 14:52:31 ON 07 MAR 2003
                 E INSULIN/CN
                 E INSULIN (HUMAN)/CN
L33            3 S E272,E32,E96
                 SELECT RN L33 1-3
L34           31 S E282-284/CRN
L35         6509 S "INSULIN"
L36            0 S L35 AND RT3/NTE
L37            0 S L35 AND "RT3"
L38            0 S L35 AND NTE/FS
L39         4027 S L35 AND NTE/FA
L40            0 S L39 AND "RT3"
L41           18 S "RT3"
L42            1 S L41 AND C15 H12 I3 N O4/MF

     FILE 'CAPLUS' ENTERED AT 15:07:36 ON 07 MAR 2003
L43         1514 S L42
L44           82 S L43(L)(RRT OR RCT)/RL
L45            0 S L44 AND INSULIN
L46           35 S L43 AND INSULIN/IT
L47            2 S L46 AND CONJUG?
L48           60 S L43 AND INSULIN
L49            2 S L48 AND CONJUGAT?
L50            2 S L48 AND LINK?
L51            0 S L48 AND COVALENT?
L52            3 S L48 AND REACT?
L53           52 S INSULIN AND RT3
L54            1 S L53 AND CONJUGAT?

=> s l53 and (link? or covalent? or react?)
        352651 LINK?
         79233 COVALENT?
       4107506 REACT?
L55            7 L53 AND (LINK? OR COVALENT? OR REACT?)

=> d ti 1-7

L55  ANSWER 1 OF 7  CAPLUS  COPYRIGHT 2003 ACS
```

TI Relationships between the structure of **insulin** and its physiological effects. Thyronine **insulin** analogues

L55 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Endocrine and metabolic responses in children with meningoccocal sepsis: striking differences between survivors and nonsurvivors

L55 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Pituitary responsiveness to GH-releasing hormone, GH-releasing peptide-2 and thyrotrophin-releasing hormone in critical illness

L55 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Different short-term effect of protein and carbohydrate intake on TSH, growth hormone (GH), **insulin**, C-peptide, and glucagon in humans

L55 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Effect of the sex-**linked** dwarf gene on thyrotropic and somatotropic axes in the chick embryo

L55 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Hormonal control of a low Km (type II) iodothyronine 5'-deiodinase in cultured NB41A3 mouse neuroblastoma cells

L55 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Reduced and compensatory growth: endocrine and metabolic changes during food restriction and refeeding in steers

=> d kwic

L55 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2003 ACS
TI Relationships between the structure of **insulin** and its physiological effects. Thyronine **insulin** analogues
AB The authors studied the biol. activity of **insulin** **covalently linked** to thyronines: N.alpha.B1-L-thyroxyl-**insulin** (T4-Ins) and N.alpha.B1-**rT3-insulin** (**rT3**-Ins). In vitro binding expts. using rat liver plasma membrane as a source of inulin receptor demonstrated that there were no significant differences between **insulin** and either of the analogs, indicating that the addn. of the thyroid moiety to the B1 position of **insulin** did not decrease the capacity for normal assocn. with the **insulin** receptor. The analogs also bound to thyroid hormone-binding proteins. In human subjects, T4-Ins displayed a significant relative hepatoselectivity with no. . .
ST thyronine **insulin** analog biol activity structure; thyroxine **insulin** analog biol activity structure; **rT3** **insulin** analog biol activity structure; reverse triiodothyronine **insulin** analog biol activity; liver selectivity thyronine **insulin** analog; adipose tissue thyronine **insulin** analog
IT Proteins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(thyroid hormone-binding; thyronine **insulin** analogs biol. activity in relation to structure)
IT Adipose tissue
Human
Liver
Structure-activity relationship
(thyronine **insulin** analogs biol. activity in relation to structure)

IT **Insulin** receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(thyronine **insulin** analogs biol. activity in relation to structure)
IT 9004-10-8, **Insulin**, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(thyronine **insulin** analogs biol. activity in relation to structure)
IT 496030-81-0 496030-82-1
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(thyronine **insulin** analogs biol. activity in relation to structure)

```
=> s ?triiodothyronine?
L56      16982 ?TRIIODOTHYRONINE?

=> s l56 and insulin
        148504 INSULIN
          1884 INSULINS
        148539 INSULIN
                  (INSULIN OR INSULINS)
L57       1569 L56 AND INSULIN

=> s l56 and l57
L58       1569 L56 AND L57

=> s l58 and conjugat?
        180905 CONJUGAT?
L59         14 L58 AND CONJUGAT?

=> s l58 and conjugat?/it
         73736 CONJUGAT?/IT
L60          5 L58 AND CONJUGAT?/IT

=> d ti 1-5

L60  ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2003 ACS
TI   Method for assaying biomolecules and other constituents using indicator
     conjugates with synthetic nucleounits in lateral flow, liquid, and dry
     chemistry techniques

L60  ANSWER 2 OF 5  CAPLUS  COPYRIGHT 2003 ACS
TI   A CLA mixture prevents body triglyceride accumulation without affecting
     energy expenditure in Syrian hamsters

L60  ANSWER 3 OF 5  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation of controlled-size inorganic particles for use in separations,
     assays, as magnetic molecular switches, and as inorganic liposomes for
     medical applications

L60  ANSWER 4 OF 5  CAPLUS  COPYRIGHT 2003 ACS
TI   Enzyme-linked immunoassay, assay kits and pair-binding compounds

L60  ANSWER 5 OF 5  CAPLUS  COPYRIGHT 2003 ACS
TI   Tests for anterior pituitary gland function.  II.  Secretion of growth
     hormone (GH, luteinizing hormone(LH), follicle-stimulating hormone(FSH),
```

and thyroid-stimulating hormone(TSH)

```
=> s 1999:811275/an
L61             1 1999:811275/AN

=> d ti

L61  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation of triiodothyronine derivative of insulin


=> select rn l61 1
E285 THROUGH E287 ASSIGNED

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DICTIONARY FILE UPDATES:   6 MAR 2003  HIGHEST RN 497140-34-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
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Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s e285-287
             1 252848-50-3/BI
               (252848-50-3/RN)
             1 252878-45-8/BI
               (252878-45-8/RN)
             1 252878-62-9/BI
               (252878-62-9/RN)
L62          3 (252848-50-3/BI OR 252878-45-8/BI OR 252878-62-9/BI)

=> d scan

L62  3 ANSWERS   REGISTRY  COPYRIGHT 2003 ACS
IN   Insulin (human), NB-[O-(4-hydroxy-3,5-diiodophenyl)-3-iodo-L-tyrosyl]-
     (9CI)
SQL  52,31,21
MF   C272 H393 I3 N66 O80 S6
CI   MAN

**RELATED SEQUENCES AVAILABLE WITH SEQLINK**
```
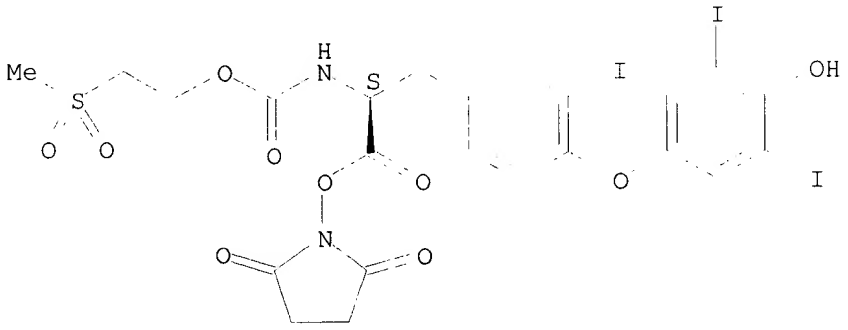

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L62 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Carbamic acid, [(1S)-2-[(2,5-dioxo-1-pyrrolidinyl)oxy]-1-[[4-(4-hydroxy-3,5-diiodophenoxy)-3-iodophenyl]methyl]-2-oxoethyl]-, 2-(methylsulfonyl)ethyl ester (9CI)
MF C23 H21 I3 N2 O10 S

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L62 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN Insulin (human), NA-[[2-(methylsulfonyl)ethoxy]carbonyl]-29B-[N6-[[2-(methylsulfonyl)ethoxy]carbonyl]-L-lysine]- (9CI)
SQL 51,30,21
MF C265 H395 N65 O85 S8
CI MAN

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***

ALL ANSWERS HAVE BEEN SCANNED

=> d 1-2

L62 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN **252878-62-9** REGISTRY
CN Insulin (human), NB-[O-(4-hydroxy-3,5-diiodophenyl)-3-iodo-L-tyrosyl]- (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
MF C272 H393 I3 N66 O80 S6
CI MAN

SR CA
LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

L62 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN **252878-45-8** REGISTRY
CN Insulin (human), NA-[[2-(methylsulfonyl)ethoxy]carbonyl]-29B-[N6-[[2-(methylsulfonyl)ethoxy]carbonyl]-L-lysine]- (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
MF C265 H395 N65 O85 S8
CI MAN
SR CA
LC STN Files: CA, CAPLUS

RELATED SEQUENCES AVAILABLE WITH SEQLINK

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> d sqide

L62 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2003 ACS
RN **252878-62-9** REGISTRY
CN Insulin (human), NB-[O-(4-hydroxy-3,5-diiodophenyl)-3-iodo-L-tyrosyl]- (9CI) (CA INDEX NAME)
FS PROTEIN SEQUENCE
SQL 52,31,21
NTE multichain
modified (modifications unspecified)

type	------ location ------		description
bridge	Cys-8	- Cys-7'	disulfide bridge
bridge	Cys-20	- Cys-20'	disulfide bridge
bridge	Cys-6'	- Cys-11'	disulfide bridge

SEQ 1 YFVNQHLCGS HLVEALYLVC GERGFFYTPK T

SEQ 1 GIVEQCCTSI CSLYQLENYC N

RELATED SEQUENCES AVAILABLE WITH SEQLINK
MF C272 H393 I3 N66 O80 S6
CI MAN
SR CA
LC STN Files: CA, CAPLUS
1 REFERENCES IN FILE CA (1962 TO DATE)
1 REFERENCES IN FILE CAPLUS (1962 TO DATE)

```
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=> s 252878-62-9
L63          1 252878-62-9

=> d ti

L63  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation of triiodothyronine derivative of insulin


=> s insulin and (rt3 or ?triiodothyronin? )
L64       6064 INSULIN AND (RT3 OR ?TRIIODOTHYRONIN? )

=> s l64 and conjugat?
L65         39 L64 AND CONJUGAT?

=> d ti 1-5

L65  ANSWER 1 OF 39  CAPLUS  COPYRIGHT 2003 ACS
TI   Method for assaying biomolecules and other constituents using indicator
     conjugates with synthetic nucleounits in lateral flow, liquid, and
     dry chemistry techniques

L65  ANSWER 2 OF 39  CAPLUS  COPYRIGHT 2003 ACS
TI   A CLA mixture prevents body triglyceride accumulation without affecting
     energy expenditure in Syrian hamsters

L65  ANSWER 3 OF 39  CAPLUS  COPYRIGHT 2003 ACS
TI   Conjugated linoleic acid effects on circulating hormones,
     metabolites and lipoproteins, and its proportion in fasting serum and
     erythrocyte membranes of swine

L65  ANSWER 4 OF 39  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation of triiodothyronine derivative of insulin

L65  ANSWER 5 OF 39  CAPLUS  COPYRIGHT 2003 ACS
TI   Rapid transient increase of biliary triiodothyronine excretion
     during short-term infusion of glucose and arginine in rats


=> d ti 6-39

L65  ANSWER 6 OF 39  CAPLUS  COPYRIGHT 2003 ACS
TI   Effect of passive immunization against somatostatin using a high-affinity
     antiserum on growth, IGF-I and thyroid hormone levels in neonatal lambs
     reared under warm or cold environmental conditions
```

L65 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of controlled-size inorganic particles for use in separations, assays, as magnetic molecular switches, and as inorganic liposomes for medical applications

L65 ANSWER 8 OF 39 CAPLUS COPYRIGHT 2003 ACS
TI Hormonal changes following an acute stress in control and somatostatin-immunized pigs

L65 ANSWER 9 OF 39 CAPLUS COPYRIGHT 2003 ACS
TI Epidermal growth factor-dependent growth of human KB cells in a defined medium and altered growth factor requirements of KB mutants resistant to EGF-Pseudomonas exotoxin **conjugates**

L65 ANSWER 10 OF 39 CAPLUS COPYRIGHT 2003 ACS
TI Enzyme-linked immunoassay, assay kits and pair-binding compounds

L65 ANSWER 11 OF 39 CAPLUS COPYRIGHT 2003 ACS
TI Thyroid hormone metabolism in primary cultured rat hepatocytes. Effects of glucose, glucagon, and **insulin**

L65 ANSWER 12 OF 39 CAPLUS COPYRIGHT 2003 ACS
TI Immunological dosage by fixed enzyme

L65 ANSWER 13 OF 39 CAPLUS COPYRIGHT 2003 ACS
TI Tests for anterior pituitary gland function. II. Secretion of growth hormone (GH, luteinizing hormone(LH), follicle-stimulating hormone(FSH), and thyroid-stimulating hormone(TSH)

L65 ANSWER 14 OF 39 CAPLUS COPYRIGHT 2003 ACS
TI The effect of undernutrition and other factors on the development of glucuronyl transferase activity in the newborn rabbit

L65 ANSWER 15 OF 39 MEDLINE
TI A CLA mixture prevents body triglyceride accumulation without affecting energy expenditure in Syrian hamsters.

L65 ANSWER 16 OF 39 MEDLINE
TI **Conjugated** linoleic acid effects on circulating hormones, metabolites and lipoproteins, and its proportion in fasting serum and erythrocyte membranes of swine.

L65 ANSWER 17 OF 39 MEDLINE
TI Rapid transient increase of biliary **triiodothyronine** excretion during short-term infusion of glucose and arginine in rats.

L65 ANSWER 18 OF 39 MEDLINE
TI The effect of interleukin-2 on suppressor T lymphocytes in autoimmune thyroid disease.

L65 ANSWER 19 OF 39 MEDLINE
TI [Human physiological blood protection systems in the late periods after ionizing radiation exposure related to the accident at the Chernobyl Atomic Electric Power Station].
Sostoianie fiziologicheskikh zashchitnykh sistem krovi cheloveka v otdalennye periody posle vozdeistviia ioniziruiushchei radiatsii, sviazannoi s avariei na Chernobyl'skoi AES.

L65 ANSWER 20 OF 39 MEDLINE
TI Hormonal changes following an acute stress in control and somatostatin-immunized pigs.

L65 ANSWER 21 OF 39 MEDLINE
TI Characterization of differentiated Syrian golden hamster pancreatic duct cells maintained in extended monolayer culture.

L65 ANSWER 22 OF 39 MEDLINE
TI Epidermal growth factor-dependent growth of human KB cells in a defined medium and altered growth factor requirements of KB mutants resistant to EGF-Pseudomonas exotoxin **conjugates**.

L65 ANSWER 23 OF 39 MEDLINE
TI Thyroid hormone metabolism in primary cultured rat hepatocytes. Effects of glucose, glucagon, and **insulin**.

L65 ANSWER 24 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI **Conjugated** linoleic acid effects on circulating hormones, metabolites and lipoproteins, and its proportion in fasting serum and erythrocyte membranes of swine.

L65 ANSWER 25 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Hormonal concentrations during parturition in sows immunized against somatostatin.

L65 ANSWER 26 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Effect of passive immunization against somatostatin using a high-affinity antiserum on growth, IFG-I and thyroid hormone levels in neonatal lambs reared under warm or cold environmental conditions.

L65 ANSWER 27 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Some physiological protective blood systems in long-term follow-up after the exposure to ionizing radiation due to the Chernobyl accident.

L65 ANSWER 28 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI Growth and serum thyroid hormone and **insulin**-like growth factor I (IGF-I) responses to natural passive immunization against somatostatin in the lamb.

L65 ANSWER 29 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI HORMONAL CHANGES FOLLOWING AN ACUTE STRESS IN CONTROL AND SOMATOSTATIN-IMMUNIZED PIGS.

L65 ANSWER 30 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI CHARACTERIZATION OF DIFFERENTIATED SYRIAN GOLDEN HAMSTER PANCREATIC DUCT CELLS MAINTAINED IN EXTENDED MONOLAYER CULTURE.

L65 ANSWER 31 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI EPIDERMAL GROWTH FACTOR-DEPENDENT GROWTH OF HUMAN KB CELLS IN A DEFINED MEDIUM AND ALTERED GROWTH FACTOR REQUIREMENTS OF KB MUTANTS RESISTANT TO EGF PSEUDOMONAS EXOTOXIN **CONJUGATES**.

L65 ANSWER 32 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI SELECTION FOR HIGH AND LOW LEVEL OF 5-ALPHA ANDROST-16-EN-3-ONE IN BOARS I. DIRECT AND CORRELATED RESPONSE OF ENDOCRINOLOGICAL TRAITS.

L65 ANSWER 33 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI LIPO PROTEIN LIPASE EC-3.1.1.34 CONTENT IN OB-17 PREADIPOCYTES DURING

ADIPOSE CONVERSION IMMUNO FLUORESCENT LOCALIZATION OF THE ENZYME.

L65 ANSWER 34 OF 39 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.
TI THYROID HORMONE METABOLISM IN PRIMARY CULTURED RAT HEPATOCYTES EFFECTS OF GLUCOSE GLUCAGON AND **INSULIN**.

L65 ANSWER 35 OF 39 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI A CLA mixture prevents body triglyceride accumulation without affecting energy expenditure in Syrian hamsters.

L65 ANSWER 36 OF 39 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI **Conjugated** linoleic acid effects on circulating hormones, metabolites and lipoproteins, and its proportion in fasting serum and erythrocyte membranes of swine.

L65 ANSWER 37 OF 39 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Rapid transient increase of biliary **triiodothyronine** excretion during short-term infusion of glucose and arginine in rats.

L65 ANSWER 38 OF 39 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Epidermal growth factor-dependent growth of human KB cells in a defined medium and altered growth factor requirements of KB mutants resistant to EGF-pseudomonas exotoxin **conjugates**.

L65 ANSWER 39 OF 39 EMBASE COPYRIGHT 2003 ELSEVIER SCI. B.V.
TI Thyroid hormone metabolism in primary cultured rat hepatocytes. Effects of glucose, glucagon, and **insulin**.

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